UNIVERSITY OF TORONTO

CALENDAR 1924-1925





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1923-1924

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to the Registrar of the College concerned
Applications for admission to the Faculties of Arts, Medicine,
Applied Science and Engineering, and Forestry, are to be sent
to the Registrar of the University, applications for admission to
the Faculties of Education and Music are to be sent to the
Secretary of the Facultie concerned

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CALENDAR 1924-1925

July 2 Wednesday Summer Session begins

of Arts

Dominion Day University Buildings closed

Meeting of the Finance and Executive Com-

September Examinations in the Faculty

Sentember Examinations in the Faculty

Students of the Third Year, Dept 1, in the

mittee of Trinity College Last day for receiving applications for the

Summer Session closes Lest day for receiving applications for the

of Medicane

1924-July 1 Tuesday

July 10 Thursday

Aug 1 Friday

Aug 4 Monday

Aug 15 Friday

Aug 16 Saturday

| Aug | 10 | Saturday | Faculty of Applied Science and Engineer- |
|-------|-------|------------|--|
| | | | ing report at Summer Survey Camp |
| A 110 | - 23 | Saturday | Students of the Third Year, Dept 2, report |
| | | | at Summer Survey Camp |
| Sep | t 1 | Monday | Last day for receiving applications for admission to the Faculty of Medicine for |
| | | | Session 1924-1925 |
| San | . 1 | Monday | Labour Day University Buildings closed |
| | | Tuesday | Last day for receiving applications for |
| Sep | | 1 desday | supplemental examinations in the Faculty |
| | | | of Applied Science and Engineering |
| Ser | t 3 | Wednesday | Supplemental Examinations in the Faculty |
| | | | of Arts begin |
| Sen | t 4 | Thursday | Meeting of the Finance and Executive Com- |
| | | | mittee of Trimty College |
| Sep | t 9 | Tuesday | Supplemental Examinations in the Faculty |
| | | | of Medicine begin |
| Ser | t 13 | Saturday | Students Fourth Year, Astronomy Option, |
| | | | Faculty of Applied Science and Engineer- |
| | | | ing report at Summer Survey Camp |
| Se | pt 19 | Friday | Meeting of the Council of the Faculty of |
| | | | Medicine |
| Se | pt 24 | Wednesday | y Supplemental Examinations in the Faculty of Applied Science and Engineering begin |
| Se | nt 22 | Saturday | Meeting of the Faculty of Arts of Victoria |
| | | | College |
| Se | pt 23 | 7 Saturday | Enrolment in classes by the various Pro- |
| | - | | fessors in the Faculty of Arts begins a |
| | | | 9 a m |
| | | | |
| | | | |

| Sept | 29 | Monday | Registration and enrolment in the Depart- ment of Social Service |
|-------|----|-----------|---|
| Sept | 29 | Monday | Meeting of the Council of the Faculty of Arts |
| Sept. | 29 | Monday | St Michael's Day |
| | | Tuesday | Academic Year begins at 9 a m |
| | | Tuesday | Last day for the completion of registration in person for the Session 1924-1925 in the Faculty of Arts |
| Sept | | Tuesday | Enrolment in classes for the Session 1924- 1925, in the Faculty of Arts, to be com- pleted at 5 pm |
| Oct | | | The opening address by the President to the students of all the Faculties at 3 pm, in Convocation Hall |
| Oct | 1 | Wednesday | Lectures begin at 9 am |
| Oct | | | Meeting of the Faculty of Arts of Victoria College |
| Oct | 1 | Wednesday | Registration in person of the first and second years in the Faculty of Applied Science and Engineering |
| Oct | 2 | Thursday | Meeting of the Council of the Ontario College of Education |
| Oct | 2 | Thursday | Registration in person of the third and fourth years in the Faculty of Applied Science and Engineering |
| Oct | 3 | Friday | Meeting of the Senate of Victoria College |
| Oct | 3 | Friday | Meeting of University College Council |
| Oct | 3 | Friday | Lectures and laboratory work commence at 9 a m in the Faculty of Applied Science and Engineering Meeting of Council of Faculty of Applied |
| | | | Science and Engineering |
| Oct | 3 | Friday | Meeting of the Council of the Faculty of |
| Oct | 4 | Saturday | Stated meeting of the Caput to deal with requests as to social functions until |
| | | | November 15 |
| Oct | 6 | Monday | Meeting of the Council of the Faculty of Arts |
| Oct | 6 | Monday | Interyear Track Meet, Faculty of Applied Science and Engineering Faculty Build- ings closed after 1 p m |
| Oct | 8 | Wednesday | / Interfaculty Track Meet University Buildings closed after 1 pm |

| Oct | 9 | Thursday | Meeting of the Finance and Executive Committee of Trinity College |
|----------|------|-------------|---|
| Oct | 10 | Friday | Meeting of Senate |
| Oct | 10 | Friday | Charter Day, Victoria College |
| Oct | 29 | Wednesday | Meeting of the Faculty of Arts of Victoria College |
| Oct | 31 | Friday | Meeting of the Senate of Victoria College |
| No | , 6 | Thursday | Meeting of the Finance and Executive Committee of Trinity College |
| | | Thursday | Meeting of the Council of the Ontario College of Education |
| No | v 7 | Friday | Meeting of University College Council |
| | | Friday | Meeting of the Council of the Faculty of Applied Science and Engineering |
| No | v 8 | -10 Saturda | y-Monday—Thanksgiving University Build- ings closed |
| | | Monday | Meeting of the Council of the Faculty of |
| No | v 14 | Friday | Meeting of Senate |
| No | v 19 | Wednesday | Arts Annual General Business Meeting of the Convocation of Trinity College |
| | | Thursday | Annual General Meeting of the Corporation of Trinity College |
| No | v 26 | Wednesday | y Meeting of the Faculty of Arts of Victoria College |
| No | | Friday | Meeting of the Senate of Victoria College |
| Do | : 1 | Monday | Last day for receiving applications for supplemental examinations in the Faculty of Applied Science and Engineering |
| De | 2 4 | Thursday | Meeting of the Finance and Executive Committee of Trinity College |
| De | | Thursday | Meeting of the Council of the Ontario College of Education |
| | | Friday | Meeting of University College Council |
| | | Friday | Meeting of the Council of the Faculty of Medicine |
| De | | 3 Monday | Meeting of the Council of the Faculty of Arts |
| De | c 12 | Friday | Meeting of Senate |
| | | | y-Friday—Term Examinations Last day of Lectures Term ends at 1 pm |
| | | Friday | Last day of Lectures 1 erm ends at 1 pm |
| - | | 2 Monday | Meeting of the Faculty of Arts of Victoria College |
| | | 5 Thursday | |
| 1925—Ja1 | | Thursday | University Buildings closed |
| Jai | 1 2 | Friday | Meeting of University College Council |

| Jan | 3 | Saturday | Mid-session Examinations commence in the Faculty of Applied Science and Engineer- ing |
|-----|-----|-----------|---|
| Jan | 5 | Monday | Meeting of the Council of the Faculty of Arts |
| Jan | | Tuesday | Easter Term begins Lectures commence at 9 am, except in the Faculty of Applied Science and Engineering |
| Jan | 7 | Wednesday | Lectures and laboratory work commence at 9 a m in the Faculty of Applied Science and Engineering |
| Jan | 8 | Thursday | Meeting of the Finance and Executive Com- mitte of Trinity College |
| Jan | | Thursday | Meeting of the Council of the Ontario College of Education |
| Jan | | Friday | Meeting of the Council of the Faculty of Applied Science and Engineering |
| | | | Meeting of Senate |
| | | | Inauguration Day, Trinity College |
| | | - | Meeting of the Faculty of Arts of Victoria College |
| | | Friday | Meeting of the Senate of Victoria College. |
| | | Thursday | Meeting of the Finance and Executive Committee of Trinity College |
| Feb | | Thursday | Meeting of the Council of the Ontario College of Education |
| Feb | | Fiiday | Meeting of University College Council |
| Feb | 6 | Friday | Meeting of the Council of the Faculty of Medicine |
| Feb | | Friday | Meeting of the Council of the Faculty of Applied Science and Engineering |
| Feb | | Monday | Meeting of the Council of the Faculty of Arts |
| | | Friday | Meeting of Senate |
| | | | Meeting of the Faculty of Arts of Victoria College |
| Feb | 25 | Wednesday | Ash Wednesday |
| Feb | 27 | Friday | Meeting of the Senate of Victoria College |
| Mar | 2 | Monday | Last day for receiving applications for supplemental examinations in Faculty of Applied Science and Engineering |
| | | Thursday | Meeting of the Finance and Executive Committee of Trinity College |
| | | Thursday | Meeting of the Council of the Ontario College of Education |
| Mar | - 6 | Friday | Meeting of University College Council |

Applied Science and Engineering Mar 9 Monday Meeting of the Council of the Faculty of Arts Mar 13 Friday Meeting of Senate Mat 16 Monday Last day for receiving applications for Annual Examinations in Arts, Law and Medicine Mar 31 Tuesday Last day for submitting LLB theses Apr 1 Wednesday Meeting of the Faculty of Arts of Victoria College Apr 1-15 Wednesday Examinations in Department of Public Health Nursing Apr 3 Friday. Meeting of University College Council Apr 3 Friday Meeting of the Senate of Victoria College Apr 3 Friday Meeting of the Council of the Faculty of Medicine

Meeting of the Council of the Faculty of

Science and Engineering Lectures and laboratory work end at 12 noon

Last day for receiving applications from

Meeting of the Senate of Victoria College

candidates for Matriculation Scholarships Meeting of University College Council

Mar 6 Friday

Apr 4 Saturday

May 1 Friday

May 1 Friday

May 1 Friday

Meeting of the Council of the Faculty of Apr 3 Friday Applied Science and Engineering Second term ends in the Faculty of Applied

Meeting of the Council of the Faculty of Apr 6 Monday Arts Apr 7 Tuesday Annual Examinations begin in the Faculty of Applied Science and Engineering Meeting of the Finance and Executive Apr 9 Thursday Committee of Trinity College Apr 10-13 Friday-Monday-Easter University Buildings closed Lectures in the Faculty of Forestry end Apr 16 Thursday Apr 17 Friday Meeting of Senate Apr 20-24 Monday-Fiiday-Term Examinations in the Faculty

of Arts Examinations in the Faculty of Forestry Apr. 21 Tuesday begin Lectures in Arts end Apr 24 Friday Apr 29 Wednesday Meeting of the Faculty of Arts of Victoria College Annual Examinations in Arts, Law, Phar-

May 1 Friday macy, and Agriculture begin Last day for receiving applications for the May 1 Friday June Examinations in Arts

| May | 1 | Friday | Meeting of the Council of the Faculty of Applied Science and Engineering |
|------|----|-----------|---|
| May | 4 | Monday, | Meeting of the Council of the leaculty of Arts |
| May | 7 | Thursday | Meeting of the Finance and Executive Committee of Trimty College |
| May | 8 | Friday | Meeting of Senate |
| May | 11 | Monday | Annual Examinations in Medicine begin |
| May | 25 | | University Buildings closed |
| | | | Medical Session ends |
| June | 1 | Monday | Last day for receiving applications for |
| | | | Fellowships |
| June | 3 | Wednesday | Meeting of Senate |
| June | 3 | Wednesday | Meeting of the Faculty of Arts of Victoria College |
| June | 4 | Thursday | Meeting of the Finance and Executive Committee of Trinity College |
| June | 5 | Friday | University Commencement |
| June | 8 | Monday | Meeting of the Council of the Faculty of Arts |
| June | 16 | Tuesday | Senior Matriculation Examination begins |
| June | 19 | Friday | Session closes at the Ontario College of Education |

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M EDWARD ALLISTER MCCULLOCH, B A, M.B,

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M John Laing MacDonald, M.B.

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M WILLIAM MAGNER, MD, DPH,

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M Mrs Jane P Sproule Manson, MB,

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M Frank Stewart Park, BA, MB, Junior Demonstrator in Medicine,

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409 Brunswick Avenu

A JOHN DANIEL ROBINS, MA, Lecturer in German, (V)

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· 186 Spadina Road

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 ${\rm 48~Roselawn~Avenue} \\ {\rm M~David~Edmund~Staunton~Wishart,~B~A~,~M.B~,}$

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M George Sills Young, B A , M B., Associate in Medicine.

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A MISS ANNIE THERESA REED, BA. Class Assistant in Physics, (U) 24 Willcocks Street

A HAROLD COLMAN RICKABY, MA. Assistant in Mineralogy, (U)

Y M C A, 40 College Street R. MISS JESSIE HAMILTON RIDOUT, BA. Assistant in the Banting-Best Research,

179 Parksule Drive

A CLIFFORD GEORGE RILEY, BSA. Assistant in Botany, (U) and Research Assistant in R Rotany.

MISS ALICIA ENID ROBERTSON. Instructor in Household Science,

19 Hazelton Avenue.

M ALBERT HILL ROLPH, BA., M.B., Assistant Demonstrator in Radiology, Hospital for Sick Children

S COLIN CONSTABLE ROUS, B A Sc. Demonstrator in Engineering Drawing. 227 Cottingham Street

A REV EDWARD LEONARD RUSH, B A., WESTERN, Instructor in Prench, (M)

St Michael's College

S WILLIAM LISTER SAGAR, B A Sc., Instructor in Civil Engineering and Applied Mechanics.

Ant 1, 114 Carlton Street

A MISS LAILA CORDELIA SCOTT, M A , Reader in French, (T) 12 Admiral Road

WILLIAM CLIFFORD MUNROE SCOTT. Assistant in Anatomy, (Easter Term) 17 Grange Road

R. BERNARD SHAFFER, B A Sc., Research Assistant in Chemical Engineering. 85 Brunswick Avenue

M NOBLE CARMAN SHARPE, BA, MB, Class Assistant in Pharmacologie,

2741 Yonge Street

R WILLIAM WALKER SHAVER, MA,
Research Assistant in Physics.

1148 Bay Street.

A ALLEN GOODEICH SHENSTONE, BS, MA, PRINCETON, BA,,
CANTAB.,
Domonstrator in Physics, (U)

40 Walmer Road

S JOSEPH ERIC BENJAMIN SHORTT, B.A SC,

Demonstrator in Thermodynamics

401 Quebec Avenue R GORDON MERRITT SHRUM, PH D ,

Research Assistant in Physics,
Middle House, Victoria College.

R MISS WINIFRED SIMPSON, BA,
Research Assistant in Pathology.

Thornhill

S ADAM WYNDHAM SIMPSON SMITH, B Sc, McGill,

Demonstrator in Electrical Engineering,

27 Harboid Street

EARL WESLEY SMITHSON, B.A.Sc.,

Demonstrator in Electrical Engineering,

74 Frans Avenue

A ELTON MILTON SPARLING, BA,
Assistant in Chemistry, (U)

58 Beatrice Street
S HENRY EMERSON STEWART, B A Sc.

Demonstrator in Mining Engineering,
5 Willcocks Street.

A CARL WILLIAM SWEITZER, B A ,
Assistant in Chomistry, (U)
48 Dundonald Street

M Andrew Copeland Taylor, BA,
Fellow in Phissology.

6 Aberdeen Club, Bain Avenue
A Miss Georgia Muriel Paxton Taylor, B A,
Fellow m Mathematics, (U)

1584 Davenport Road

A ALFRED EDWIN TILBY,
Instructor in French, (C)

710 Spadina Avenue.

R ELDRED WALTON TODD, B A ,

Research Assistant in Mineralogy,

858 Woodbine Avenue.

R MISS MARY ISABEL TOM, BA, MB, Research Assistant in Anatomy,

101 Gloucester Street

R GORDON FREDERICK TRACY, B A Sc.,

Research Assistant in Electrical Engineering,

M HENRY EDMUND PETER VALE, BA.

Demonstrator in Bacteriology,

75 Huntley Street

R MISS CHARLOTTE VALENTINE, BA,
Research Worker in Household Science,
87 Classic Avenue

M JOHN FAIR VAN EVERY, BA, Instructor in English Expression,

13 Wells Street

R RALPH CYRLL VEALS, B A Sc,

Research Assistant in Chemical Engineering,
39 Grenadier Road
M FULTON SCHUYLER VROOMAN. M B.

Assistant Demonstrator in Psychiatry,
999 Queen Street West

A MISS MARY EVELYN GERTRUDE WADDELL, M A,

Instructor in Mathematics. (U.)

72 Madison Avenue A Anson Robertson Walker, B A, Queen's, M.A.

R Instructor in Botany, (U), and Research Assistant in Botany,

A ROBERT BRUCE WALKER, B.A.,
Assistant in Chemistry, (U)

65 Clinton Street

A PAUL ANTHONY WILSON WALLACE, M A ,

Instructor in English, (C)

378 Markham Street

M WILFRID PARSONS WARNER, M B., Fellow in Physiology and in Medicine, 142 St. George Street.

A PERCIVAL SIDNEY WARREN, BA,

Class Assistant in Geology, (U)

40 Elgin Avenue

A WADE RALPH WATSON,
Assistant in Botany, (U)
117 Reaconsfield Avenue

S JULIUS JOHN WEICKER, B A Sc,

Demonstrator in Hydraulics,

11 Jones Avenue

R CHARLES BEECHER WELD, B A , BRITISH COLUMBIA,
Research Assistant in Research Division, Connaught
Laboratories.

320 Bloor Street West.

A Albert Ernest Roberts Westman, M A.,
Assistant in Electro-Chemistry, (U)

215 Indian Road S Alexander Currie Wilson, B.A.Sc.,

Demonstrator in Engineering Drawing,

283 Evelyn Avenue
A FREDERICK B WILSON, PHM B, MB,
Class Assistant in Biologi, (U)

1656 St Clair Avenue West S WILLIAM STEWART WILSON, B A Sc.

Demonstrator in Engineering Drawing,
1 Humewood Court

S George Ross Workman,

Demonstrator in Engineering Drawing.

22 Helena Avenue R ARTHUR MARSHALL WYNNE, M A., QUEEN'S,

Research Assistant in Zymology, 27 Lytton Boulevard

A JOHN FRANCIS TODD YOUNG, PH D,

R Demonstrator in Physics, (U) and Research Assistant in Physics,

174 Dowling Avenue.

Tita Downing Watering

ONTARIO COLLEGE OF EDUCATION

JOHN GEORGE ALTHOUSE, M A ,

GEORGE ALTON CLINE, D S O , M A , Hart House, University of Toronto

ERNEST LE ROY DANIHER, B.A.,

224 Evelyn Avenue

HORACE ALEXANDER GRAINGER, B A , 25 Westmount Avenue

JOSEPH A IRWIN, B.A.,
60 Grace Street

WILLIAM JAMES LOUGHEED, M A,
286 Runnymede Road

Scarboro Bluffs

JOHN HUDSON MILLS, M. A., QUEEN'S,

NORMAN LESLIE MUBCH, B. A.,

CHARLES EDWARD PHILLIPS, B.A.,

THOMAS M. PORTER,

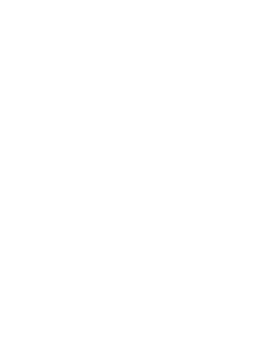
WALTER LAWRENCE CHRISTIE RICHARDSON, B.A.,

JOHN FAIR VAN EVERY, B.A.,

WALTER HERBERT WILLAMS, M.A., QUEEN'S,

198 Glenholme Avenue

JAMES GEOSGE WORKMAN, B.A.,



CONSTITUTION AND ADMINISTRATION OF THE UNIVERSITY

The constitution, powers and functions of the University are defined in "The University Act, 1906" (RSO, 1914, Chap 279)

The management of the property, finances and academic business of the University is entrusted to the Beard of Governors, the Senate, Convocation, the Faculty Councils, the Council of University College and the Caput The functions of these various bodies are exercised subject to supervision and control by the Crown, as hereafter exchanged.

I TER CROWN—The Leutenant-Governor-un-Council has the power to appoint and to remove the Board of Governors (with the exception of the Chancellor and the President), to appoint and remove the Chairman of the Board, his assent is necessary before the Board can make any expenditure which impairs the endowment of the University or College, through the Provincial Auditor or someone tells appointed by himself, the audits the accounts of the Board and he requires of them an Annual Report for submission to the Lezslature.

2 THE BOARD OF GOVERNORS -The Board of Governors consists of: The Chancellor and the President, ex-officeo, and eighteen persons apcounted by the Lieutenant-Governor-in-Council, one of whom is named as Chairman of the Board The appointed members hold office for six years, and one-third of the number retires every two years, but these members are eligible for re-election. The Board has power to appoint the President of the University, and to appoint or remove all of the officers and servants of the University or University College upon the nomination or recommendation of the President The government, conduct, management and control of the University and University College and of the property, revenues, business and affairs thereof are vested in the Board (University Act. 1906, Section 37), but all expenditures of endowment must be authorised by the Lieutenant-Governor-in-Council The Board makes by-laws, rules and regulations regarding the investment of the funds, the selling and leasing of University properties, the letting of contracts, the appointment and removal of the Bursar and his assistants, clerks and other officers and servants of the University, the rate of salaries to be paid to the staff and officers, the fees to be paid by students, the annual appropriations and the transaction of other business

3 TIDE SENATE—The Senate consists of four classes of members, (1) Ex-office members, (2) Faculty members, (3) Appointed members, and (4) Elected members The ex-office members are the Charcellor, the Chairman of the Board of Governors, the President of the University (Deegs, the President or other head of each federated university or college, the Deans of the Faculties of Arts, Medicine, Applied Science and Engineering, Household Science, Education, Forestry

and Music, all past Chancellors, Vice-Chancellors and Presidents Representation of the Faculties is made up as follows. The professors, not including the associate professors, of the Faculty of Arts of the University, five members of the Faculty of Medicine, five members of the Faculty of Applied Science and Engineering, two members of the Faculty of Education, three members from each of the four Arts Colleges, University College, Victoria University, Trinity College and St. Michael's College. The appointed members consist of one representative appointed by each federated university, two by each federated college, one by the Law Society of Upper Canada and one by each federated institution, subject, however, in the latter case, to certain restrictions. The elected members number thirtysix made up of twelve members representing the graduates in Arts who at graduation were enrolled in University College, five members each representing similar graduates in Victoria College and Trinity College. four representing the graduates in Medicine, two each representing the graduates in Applied Science and Engineering and in Agriculture, two representing the graduates in Law, and four representing the principals of collegiate institutes or high schools or assistants therein who are actually engaged in teaching in such institute or school The graduates in Medicine and Law of Victoria University and Trinity College vote with the graduates of the University of Toronto in these same faculties

The body thus composed is renewed once in four years, when all except the ex-officio members and the representatives of the Faculty of Arts of the University must retire, but are eligible for reappointment or re-

election The Chairman of the Senate is the President

The Senate has the power to fill any vacancy which may occur among the elected members of the Senate and to return a final decision in any dispute which may arise in connection with the Senate elections Among the powers and duties of the Senate are the following. To provide for the regulation and conduct of its proceedings, for the granting of degrees, including honorary degrees, and certificates of proficiency, except in Theology, for the establishment of exhibitions, scholarships and prizes, for the affiliation of any college established in Canada, for the dissolution or modification of the terms of affiliations, for the cancellation, recall and suspension of degrees, for the establishment of any faculty, department, chair or course of instruction in the University, or any department, chair or course of instruction in University College, except Theology, for the conduct of the election of members of the Senate, for the appointment of examiners and the conduct of all University examinations other than those in the faculties. for the representation on the Senate of any faculty which may hereafter be established, for the preparation and publication of the calendars, to consider and determine on the report of the faculties, the courses of study in these faculties, and all other courses of study for which no faculty is created; to consider and determine on the report of the various faculty councils, the appointment of examiners and the conduct and results of h e examinations in these faculties, to consider such matters as may be reported to it by the council of any faculty and to communicate its opinion or action thereon to the council, to their and determine appeals from decisions of the faculty councils upon applications and memorals by students and others, to make rules and regulations for the management and conduct of the Library and to prescribe the duties of the Library and not prescribe the duties of the Library and to prescribe the duties of the Library and and conduct of the Library and to prescribe the duties of the Library and and to make such changes in its own composition as may be deemed proper for promoting the interests of the University and of University College or for carrying out the objects and movings of the Act.

4 CONVCATION—Convocation consists of the whole body of graduates of the University, in all faculties Except indirectly through it is elected representatives, no part of the management of the University is exercised by it as a whole I elects the Chancellor, and, in divisions according to faculty, itselects members of Senate, as its representatives in Art., Medicine, Law, Applied Seconce and Engineering and Agriculture. Any question relating to University affairs may be discussed by it, and a vote taken The result of such discussion is communicated to the Senate, which must consider the representation made, and return to Convocation its conclisions.

5 FACULTY CONNILS—The seven faculties of Arts, Medicine, Applied Science and Engineering, Household Science, Education, Forestry and Music have each a Council, the President being Chairman, evofficio, of the first and the Deans of the espective faculties of the other five. All professors, associate professors and assistant professors engaged in teaching students of any faculty have a seat and vote upon the council of the faculty whose students they teach, lecturers also, provided they are upon the permanent staff, have a seat but no vote in the council a Each council is autonomous, and that she estellment in the first instance of all applications and memorials from its students, the drawing up of a curriculum of studes, and the appointment of examiners and conduct of examinations. In the case of applications and memorials the settlement by the council is subject to an appeal to the Senate, in the case of courses of studies, appointed of examiners and conduct of examinations of the councils are subject to the approval of the pancroval of and confirmation by the Senate.

The Council of the Faculty of Arts uncludes the Prancipal of University, College, the Presedent or other head of every federated university, the Dean of the Faculty of Aris, the teaching staff of University, Victoria, Trinity and St. Michael's College (except in the case of those whose appointments are temporary), and one professor in the Department of Relinous Knowledge appointed by each federated university or college.

6 THE CAPUT—The Caput is a committee composed of the President, the Principal of University College, the Heads of the federated universities, the Heads of the federated colleges, and the Deans of the faculties of the University.

It has power to authorize teaching and lectures by others than the duly appointed members of the teaching staff, to exercise discipline over students, where more than one college or one faculty is concerned, or where breaches of discipline occur outside the buildings or grounds appropriated to the several colleges and faculties

- 7 THE COUNCIL OF UNIVERSITY COLLEGE—This body is composed of the Principal and the professors, associate professors and assistant professors of the College—It has committed to it the direction and management of the College with full authority over and entire responsibility for the discipline (including the imposition of teasonable fines) of the undergraduates in relation to the lectures and other instruction of the professors, lecturers and other teachers of the College, and no lecturing or teaching of any kind may be carried on in the College by any other than the duly appointed professors or teachers without the authority of the Council
- 8 FEDERATED INSTITUTIONS -The following institutions are federated with the University, viz , Victoria College, Trinity College, St. Michael's College. Knox College and Wycliffe College. The president or other head of each is, ex-officio, a member of the Senate and of the University Council In addition, Knox and Wycliffe Colleges each appoint two other representatives on the Senate Victoria and Trinity Colleges each appoint one member and the graduates of each elect five more representatives to represent each College All regular students matriculated in the University who are enrolled in University College or Victoria College or Trinity College or St. Michael's College and who enter their names with the Registrar of the University are entitled to free instruction in Arts in the University But this provision does not include exemption from laboratory fees, nor does it apply to graduate instruction. When a federated college, by arrangement with the University Council, teaches any part of the Arts course the Board of Governors may make a reduction in the fees of students taught in such College
 - 9 RYUNNURS OF THE UNIVERSITY —In addition to the income from the balance of the original endowment and additions made to it from time to time, the Legislature grants to the University, annually, the sum of \$800,000 from the revenues of the Province In addition, the annual deficit upon mantenance account is boune by the Province.



MATRICULATION

SUBJECTS

A candidate for Pass Matriculation must write upon the examinations conducted by the Department of Education of Ontario in the following subjects of the Middle School

LATIN (Authors, one paper, Composition, one paper)

ENGLISH (Literature, one paper, Composition, one paper)

HISTORY (British, one paper, Ancient, one paper) MATHEMATICS (Algebra, one paper, Geometry, one paper)

Any two of

GREEK (Authors, one paper, Composition, one paper)

FRENCH (Authors, one paper, Composition, one paper) GERMAN (Authors, one paper, Composition, one paper)

SPANISH (Authors, one paper, Composition, one paper) or

ITALIAN (Authors, one paper, Composition, one paper) EXPERIMENTAL SCIENCE (Physics, one paper. Chemistry, one paper) or

AGRICULTURE (Part I, one paper, Part II, one paper)

In certain cases foreign students may present themselves for examination in their language instead of Greek or French or German or Spanish or Italian when the language and the curriculum in that language have been approved by the Senate The examination in an approved language consists of two years, similar in character to those in English

A candidate for Honour Matriculation must write upon the examinations conducted by the Department of Education of Ontario in one or more of the following subjects of the Upper School

GREEK (Authors, one paper, Composition, one paper) LATIN (Authors, one paper, Composition, one paper)

ENGLISH (Literature, one paper, Composition, one paper) FRENCH (Authors, one paper, Composition, one paper)

GRRMAN (Authors, one paper, Composition, one paper)

SPANISH (Authors, one paper, Composition, one paper) or

ITALIAN (Authors, one paper, Composition, one paper)

HISTORY (one paper)

MATHEMATICS (Algebra, one paper, Geometry, one paper, Trigonometry, one paper, *Problems, one paper)

PHYSICS (one paper) CHEMISTRY (one paper)

BIOLOGY (Botany, one paper, Zoology, one paper) ,

^{*}For certain Scholarship candidates only, see pages 18 and 21

These examinations, so both Pass and Honour Matriculation, are conducted by the Department at various centres throughout the Province of Ontario in June of each year

STANDARDS

A candidate for Pass Matriculation will be allowed to write on one or more papers at a time in any order, and on obtaining at least fifty per cent of the marks assigned to any paper will be given credit for having passed in such paper and will receive a certificate of such standars

A candidate for Honour Matriculation will be allowed to write on one or more papers at a time in any order

In order to secure First Class Honours in a subject a candidate must obtain at one examination at least seventy-five per cent of the marks assigned to that subject and at least fifty per cent in each paper of that subject.

In order to secure Second Class Honours in a subject a candidate must obtain at one examination at least sixty-six per cent of the marks assigned to that subject and at least fifty per cent in each paper of that subject

In order to secure Third Class Honours in a subject a candidate must obtain at one examination at least sixty per cent of the marks assigned to that subject and at least fifty per cent in each paper of that subject

A candidate who fails to obtain First, Second or Third Class Honours in a subject under the above regulations, may secure credit for the subject by obtaining at least fifty per cent on each paper of the subject, not necessarily at one examination

Such credit in a subject will be accepted by the University as covering the Honour Matriculation requirement with respect to that subject for admission to any faculty

Such credit in a subject will also be accepted by the University as entitling the candidate, if registered in the Facility of Aris, to exempt from the Pass work of the First Year in that subject, wherever the subject is ancluded in the First Year of the Pass Course, but such exemption can be claimed in more than three subjects by a student registering in the First Year of the Pass Course, but one control to the Cambridge of the Pass Course in the Pirst Year of the Pass Course.

FACULTY OF ARTS

A candidate for admission to the First Year in the Faculty of Arts must produce satisfactory certificates of good character and of having completed the sixteenth year of his age on or before the first of October of the year in which he proposes to register

Admission to the Pass Course

A candidate for admission to the First Year of the Pass Course must present certificates covering complete Pass Matriculation

A candidate for admission who presents, in addition to complete Pass Matriculation, certificates giving him credit at Honour Matriculation in all or all but one of the subjects of the First Year of the Pass Course may be admitted to the Second Year of that Course. The prescribed fee for such admission to the Second Year is fifteen dollars.

ADMISSION TO AN HONOUR COURSE

A candidate for admission to the First Year of an Honour Course must present, in addition to complete Pass Matriculation, certificates giving him credit at Honour Matriculation in the subjects prescribed below for the Honour Course which he wishes to enter

NOTE The term "additional subject" includes any one of English, History, Greek, French, German, Italian, Spanish, Trigonometry, Physics, Chemistry, Biology

CLASSICS — Greek, Latin, Mathematics (Algebra and Geometry), together with two additional subjects, one of which should be French or German

GREEK AND HEBREW — Greek, Latin, Mathematics (Algebra and Geometry), one of English, French, German, together with an additional subject

FRENCE GREEK AND LATIN —Latin, Mathematics (Algebra and Geometry), two of Greek, English, French, together with an additional subject

MODERN LANGUAGES—Latin, French, Mathematics (Algebra and Geometry), one of German, Italian, Spanish, together with an additional subject ENGLISH AND HISTORY—Latin, Mathematics (Algebra and Geometry),

two of Greek, English, French, German, together with an additional subject
*Modern History (Latin, Mathematics (Algebra and Geometry),

*POLITICAL SCIENCE History, French or German, together with an additional subject

*PHILOSOPHY — Latin, English, Mathematics (Algebra and Geometry), one of History, Greek, French, German, Physics, together with an additional subject

PHILOSOPHY (ENGLISH OR HISTORY OPTION) — Latin. Mathematics

(Algebra and Geometry), one of History, English, Physics, one of Greek, French, German, together with an additional subject PSYCHOLOGY—Latin, Mathematics (Algebra and Geometry, Trigo-

nometry), French or German, and one of Physics, Biology, Chemistry
MATHEMATICS
(Latin, Mathematics (Algebra and Geometry, Trigonometry), Physics, and
French or German

*A student may qualify for admission to the Second Year of this course by obtaining complete standing in the First Year of the Pass Course with an average of sixty-six per cent in at least four subjects

Latin. Mathematics (Algebra

and Geometry, Trigonome-

trv). French or German,

and one of Physics, Biology,

Chemistry

PRYSICS BIOLOGY PHYSIOLOGY AND BIOCHEMISTRY BIOLOGICAL AND MEDICAL SCIENCES CHEMISTRY AND MINERALOGY CHEMISTRY

GROLOGY AND MINERALOGY SCIENCE (GENERAL)

HOUSEHOLD SCIENCE

HOUSEHOLD ECONOMICS -Latin, Mathematics (Algebra and Geometry), two of English, French or German, Physics, Biology, Chemistry, together with an additional subject, the candidate is recommended to take French or German and a science

Admission to Commerce and Finance

A candidate for admission to the First Year of the Course in Commerce and Finance must present certificates giving him credit in the following subjects of Pass and Honour Matriculation

Pass Matriculation

ENGLISH (Literature and Composition) HISTORY (British and Ancient) MATHEMATICS (Algebra and Geometry)

Three of

GREEK (Authors and Composition) LATIN (Authors and Composition) FRENCH (Authors and Composition)

GERMAN (Authors and Composition) SPANISH (Authors and Composition) or

ITALIAN (Authors and Composition) EXPERIMENTAL SCIENCE (Physics and Chemistry) or

AGRICULTURE (Parts I and II)

HONOUR MATRICULATION

ENGLISH (Literature and Composition) MATHEMATICS (Algebra, Geometry and Trigonometry) Two of

LATIN (Authors and Composition) GERMAN (Authors and Composition) FRENCH (Authors and Composition) SPANISH (Authors and Composition) or

ITALIAN (Authors and Composition) Perverce or

CHEMISTRY of

BIOLOGY (Botany and Zoology)

A student who submits a Part I Commercial Specialist's Certificate may substitute the same for Ancient History and a language of Pass Matriculation and for the Geometry and Trigonometry of Honour Matriculation

FACULTY OF MEDICINE

A candidate for admission to the First Year in the Faculty of Medicine must produce satisfactory certificates of good character and of having completed the seventeenth year of his age on or before the first of October of the year in which he proposes to register, only under exceptional croumstances will a candidate of thirty vestor or more he admitted

He must also present certificates giving him full credit in the following subjects of Pass and Honour Matriculation

PASS MATRICULATION

HISTORY (Britsh and Ancient)
MATHEMATICS (Algebra and Geometry)
EXPERIMENTAL SCIENCE (Physics and Chemistry)
Any one of
GREEK (Authors and Composition)
FRENCH (Authors and Composition)
GREANN (Authors and Composition)
SNAINS (Authors and Composition)

ITALIAN (Authors and Composition)

LATIN (Authors and Composition)
ENGLISH (Literature and Composition)

HONOUR MATRICULATION

ENGLISH (Literature and Composition)
MATHEMATICS (Algebra, Geometry and Trigonometry)
One of

LATIN (Authors and Composition)
GREEK (Authors and Composition)
FRENCH (Authors and Composition)
GERMAN (Authors and Composition)

NOTE Physics or Chemistry or Biology of Honour Matriculation may be substituted for Trigonometry

A student who has fully completed the First Year in the Faculty of Arts of the University of Toronto, will be admitted to the First Year in the Faculty of Medicine, provided he has at least Pass Matriculation standing in Experimental Science

Each candidate for admission to the First Year must submit his application for admission together with his certificates, to the Registrar of the University, not later than September 1st

FACULTY OF APPLIED SCIENCE AND ENGINEERING A candidate for admission to the First Year in the Faculty of Applied

Science and Engineering must produce satisfactory certificates of good character and of having completed the seventeenth year of his age on or before the first of October of the year in which he proposes to register

He must also present certificates giving him credit in the following subjects of Pass and Honour Matriculation

PASS MATRICULATION

ENGLISH (Literature and Composition)
HISTORY (British and Ancient)
MATHEMATICS (Algebra and Geometry)
Any three of

LATIN (Authors and Composition)
GREEK (Authors and Composition)
FRENCH (Authors and Composition)

GERMAN (Authors and Composition)
SPANISE (Authors and Composition) or

AGRICIII.TURE (Parts I and II)

ITALIAN (Authors and Composition)
EXPERIMENTAL SCIENCE (Physics and Chemistry) or

HONOUR MATRICITATION

ENGLISH (Literature and Composition)
MATHEMATICS (Algebra, Geometry and Trigonometry)
One of

LATIN (Authors and Composition)
GREEK (Authors and Composition)

FRENCE (Authors and Composition)

GERMAN (Authors and Composition)
SPANISE (Authors and Composition) or

ITALIAN (Authors and Composition)

In selecting the options it is recommended that students take French, German and Experimental Science. In the Department of Architecture, French is required, in the Departments of Chemical Engineering and Mechanical Engineering it is desirable that students tate German, and the Department of Metallingical Engineering, Spanish and Experimental Science are recommended.

FACULTY OF FORESTRY

A candidate for admission to the First Year in the Faculty of Forestry must produce satisfactory certificates of good character and of having completed the seventeenth year of his age on or before the first of October of the year in which he proposes to register He must also present certificates giving him credit in the following subjects of Pass and Honour Matriculation

PASS MATRICILATION

ENGLISE (Literature and Composition)

HISTORY (British and Ancient)

MATHEMATICS (Algebra and Geometry)
Any three of

LATIN (Authors and Composition)

GREEK (Authors and Composition)
FRENCH (Authors and Composition)

GERMAN (Authors and Composition)

SPANISH (Authors and Composition) or

ITALIAN (Authors and Composition)

EXPERIMENTAL SCIENCE (Physics and Chemistry) or

AGRICULTURE (Parts I and II)

HONOUR MATRICULATION

ENGLISH (Literature and Composition)

MATHEMATICS (Algebra, Geometry and Trigonometry)

Any one of

LATIN (Authors and Composition)

FRENCH (Authors and Composition)
GERMAN (Authors and Composition)

In selecting the options it is recommended that students take French or German of Honour Matriculation

FACILITY OF MUSIC

The subjects for Matriculation in Music are English (Literature and Composition)

Any two of

LATIN (Authors and Composition)
GREEK (Authors and Composition)

FRENCH (Authors and Composition)

GERMAN (Authors and Composition)

Spanish (Authors and Composition) or Italian (Authors and Composition)

A candidate for the degree of Bachelor of Music must complete his

Matriculation prior to admission to the examination of the final year.

The pass standard is the same as that for Pass Matriculation.

For admission to the Faculty of Music in 1926 a candidate will be required to present certificates giving him credit in the following subjects of Pass Matriculation.

LATIN (Authors and Composition)
ENGLISE (Literature and Composition)
HISTORY (British and Ancient)
MATHEMATICS (Algebra and Geometry)
Any two of
GREEK (Authors and Composition)
FRENCE (Authors and Composition)

GREEK (Authors and Composition)
PRENCH (Authors and Composition)
GERMAN (Authors and Composition)
SPANISH (Authors and Composition) or
ITALIAN (Authors and Composition)

EXPERIMENTAL SCIBNCE (Physics and Chemistry) or

AGRICULTURE (Parts I and II)

DEPARTMENT OF DENTISTRY

A candidate for admission to the First Year in the Department of Dentistry (Royal College of Dental Surgeons) must produce satisfactory certificates of good character and of having completed the sixteenth year of his age on or before the first of October of the year in which he proposes to register.

He must also present certificates giving him full credit in the following subjects of Pass Matriculation

I ATIN (Authors and Composition)

ENGLISH (Literature and Composition)

HISTORY (British and Ancient)
MATHEMATICS (Algebra and Geometry)

MATHEMATICS (Algebra and Geometry)
EXPERIMENTAL SCIENCE (Physics and Chemistry)
Any one of

GREEK (Authors and Composition)

FRENCH (Authors and Composition)
GERMAN (Authors and Composition)

SPANISH (Authors and Composition) or

SPECIAL MATRICULATION CONDITIONS

The new regulations outlined on page 6 by which any candidate may receive credit in one or more papers at an examination have rendered innecessary the special regulations for the industrial candidate. Consequently such candidate will no longer be required to send its statement of marks, together with a certificate of employment to the Secretary of the University Matriculation Board, in order to secure credit for the naners in which he has passed

ANNIIAI, EXAMINATION

The examination for Pass and Honour Matriculation is held annually in June at centres in Ontario, and, if application is made to the

Senate, the examination may, with the co-operation of the Department of Education, be held at centres outside Ontario

Applications must be sent not later than May 15th, to the local Public School Inspector, or in the case of candidates intending to write at the University, to the Registrar

Scholarship candidates must also send a special application by the same date to the Registrar, according to a form to be obtained from him

The prescribed fee will be paid to the presiding officer by the candidate, when he presents himself for examination

The Junor Matriculation examination will be held in June at such centres outside Ontain oa may from time to time be authorized by the Senate Applications for the establishment of such local centres must be made to the Registrar not later than April 15th, in each year Applications from candidates for this evamination must be sent to the Registrar not later than May 15th

The presiding evanuary's fee, together with any other necessary expenses in connection with such an examination, must be met by the candidates at the centre, or by the authorities of the School or College on whose application it is held

EQUIVALENT EXAMINATIONS

A person who has passed the Matriculation evamination of another University may be admitted ad eundem statum on such conditions as the Senate, on application, may prescribe

The local examinations conducted by the University of Oxford and the University of Cambridge may be accepted pro lanto

Certificates of having passed the subjects common to the Matriculation and other examination of any of the following examinations will be accepted pro tanto, provided always that the standards of these certificate as to subjects and percentages meet the requirements of this University

PROVINCE OF ONTARIO

The Middle School or Upper School examinations or examinations of the same standard under other names

PROVINCE OF QUEBEC

The University School Leaving Certificate examination

The Intermediate School Diploma examination

PROVINCE OF NEW BRUNSWICE

The examinations for Grammar School, or Superior or First Class Licences

PROVINCE OF NOVA SCOTIA

The Grade XI and Grade XII examinations

5 00 5 00

PROVINCE OF MARITORA

The Grade XI (Matriculation) and Grade XII examinations

PROVINCE OF BRITISH COLUMBIA

The Junior and Senior Matriculation examinations

PROVINCE OF PRINCE EDWARD ISLAND

The First Class Teachers' License examination

PROVINCE OF ALBERTA

The Grade XI (Iunior Matriculation) and Grade XII examinations

PROVINCE OF SASKATCHEWAN

The First and Second Class Teachers' examinations. The Senior and Junior Matriculation examinations

NEWFOUNDLAND.

Associate in Arts examinations

Candidates whose certificates do not cover all the subjects may complete matriculation by passing in the remaining subjects as prescribed by the University, or by passing in the subjects of similar standard as prescribed by the Education Department of the Province by which the certificate was issued

The Senate will consider applications for the recognition of certificates other than those mentioned, as occasion may require

FEES

The Fees payable are as follows -

For registration of certificates for other than University

\$5.00 purposes For registration of certificates other than those of

Ontario, which exempt the applicant from the full Matriculation examination For admission ad eurodem statum

MATRICULATION SCHOLARSHIPS

All Matriculation Scholarships offered by the University of Toronto are tonable only by students registered in the Faculty of Arts with the exception of the following

- 1 The Robert Bruce Bursary and Scholarship, tenable by students registered in the Faculty of Arts or in the Faculty of Medicine,
- $2\,$ The Ontario Hockey Association War Memorial Scholarship, tenable by a student in any faculty

Where there is no letter prefixed the scholarship is open to all competitors and is tenable in any one of the Colleges. In all other cases, the letter C indicates University College, the letter V, Victona College, the letter T, Trinity College, and the letter M, St Michael's College, the student to whom one of these scholarships is awarded is required to enroll in each year of his course in the College to which the scholarship belongs

PASS MATRICULATION SCHOLARSHIPS

Two Scholarships, known as "The First and Second Gibson Pass Matriculation Scholarships", of the value of \$120 and \$100 respectively with free tuition for one year, have been endowed by Sir John M Gibson, of Hamilton, a graduate in Arts of 1863

They will be awarded subject to the following conditions

- 1 All candidates for these Scholarships must have been bona fide students of the Hamilton Collegiate Institute for at least the two years immediately preceding the award
- 2 Each candidate must send a special application not later than May 15th to the Registrar of the University according to a form to be obtained from him, in this form he must state in writing that it is his intention to proceed to a degree in Arts in one of the Colleges of the University of Toronto
- 3 The Scholarships shall be awarded annually upon the results of the June Pass Matriculation Examinations conducted by the Department of Education of Outario in the year of the award and in the year immediately preceding the award. The subjects and standards shall be those preserbed for Pass Matriculation in the Faculty of Arts.
- 4 In each of these two years candidates must present themselves for examination and obtain credit in the subjects for which they have been prepared in accordance with the arrangement of studies in the Hamilton Collegiate Institute

- 5 Successful candidates must register in the First Year of the Pass Course in the Faculty of Arts during the session immediately following the award, unless special permission is granted by the Senate of the University to postoone such registration.
- 6 The cash payment of the Scholarships shall be made in the month of February in this session. Before payment can be made the scholar must present the prescribed certificate of attendance.
- 7. In the event that a scholar decides to attend the Hamilton Collegiate Institute for the session following the award, in order to pursue the course of study for Honour Matriculation, the payment of the Scholarship shall be deferred until the scholar registers in the Faculty of Arts at the University
- 8 The holder of a Gibson Pass Matriculation Scholarship is not debarred from competing for an Honour Matriculation Scholarship in the University of Toyonto.

HONOUR MATRICULATION SCHOLARSHIPS

REGULATIONS REGARDING THE UNIVERSITY SCHOLARSHIPS

All Scholarships shall be awarded upon the marks obtained at the examination for Honour Matriculation conducted by the Department of Education of Ontario, and the marks in each subject shall be assigned on the basis of 100 for each paper in the subject as defined on page 5

Candidates for Matriculation Scholarships must send a special application not later than May 15th to the Registrar of the University, according to a form to be obtained from him

This application shall be accompanied by certificates showing that the candidate has complete Pass Matriculation standing

Each candidate shall at the Scholarship examination obtain credit in all the subjects of Honour Matriculation required for admission to the First Year of an Honour Course in the Faculty of Arts, as defined on pages 7 and 8

A candidate to whom a scholarship has been awarded at a Matriculation examination may not compete for a scholarship at a subsequent Matriculation camination. This regulation does not debar the holder of a Gibson Pass Matriculation Scholarship from competing for an Honour Matriculation Scholarship.

With the exception of the Prince of Wales Scholarship, no one shall be entitled to hold more than one University scholarship, but any one who, but for this provision, would have been entitled to a second scholarship will be published in the lists

College Scholarships may be held with University Scholarships

Every candidate for an Honour Matriculation scholarship shall, on application for examination, sign a declaration to the effect that he intends to proceed to a degree in Arts in this University A candidate competing for University scholarships must indicate at the

time of application for examination the College in which he intends to enrol
No scholarship will be awarded save on condition that the candidate
becomes a matriculated student in actual attendance in this University,

through enrolment in one of the colleges

Free tuition awarded will be available on the following conditions—For
the First Year on the award of the scholarship, for any year after the first
on proof that the claimant has passed his examination for the preceding
very with a first clais in an honour course

In case in any year any scholarship be not taken, it will be allowable to award such scholarship, or some part thereof, to a candidate who has shown special excellence in the examination in some other group and has taken scholarship rank therein, but has failed to win a scholarship therein

These regulations are subject to change by the Senate

REGULATIONS RESPECTING UNIVERSITY COLLEGE SCHOLARSHIPS

Scholarships in University College are tenable with an Edward Blace Scholarship, always providing that the winner be in first class honours in Classics at Matriculation and becomes and continues to be a registered student in attendance upon lectures either in Classics or in English and History with the Classical option in University College In the event of no eligible candidate being forthcoming at Matriculation for these scholarships, the scholarships will be held over until the year following.

REGULATIONS RESPECTING VICTORIA COLLEGE SCHOLARSHIPS

Scholarships in Victoria College are tenable with an Edward Blake Scholarship, always providing that the winner be in first class honours at Matriculation and becomes and continues to be a registered student in attendance upon lectures in Victoria College

REGULATIONS RESPECTING TRINITY COLLEGE SCHOLARSHIPS

The regulations governing University Scholarships are applicable to Trinity College Scholarships, mulatis mulands, with the additional regulation that the holder is ordinarily required to reside in College, unless special permission to the contrary is given by the Executive Committee.

As a Trinity College Scholarship is generally held in conjunction with a Tunversity Scholarship, the holder in such case enjoys (of free tumon, (b) the cash value of the University Scholarship, (c) the cash value of the Trinity College Scholarship For example, if the holds the Wellegton Scholarship in Classics and a First Edward Blake Scholarship in the same department, his University Scholarship grates and department, his University Scholarship in the same department, his University Scholarship exited him to free tunion for four years, which is equivalent to \$100, and he receives in addition \$50 from the University, and \$120 from Trinity College Readens, of Scholarship in the control of \$300. A further advantage is that the winners assured of accommodation in the Trinity College Readence (or in St Hidds's in the case of women), as Scholars are given precedence over all other applicants when

PROFICIENCY SCHOLARSHIPS

Candidates for Proficiency Scholarships in any one of the following groups must either

(a) Obtain fifty per cent in each of the eleven papers prescribed in each Group, together with an average of seventy-five per cent, σr

(b) Obtain First Class Honours in one of the four departments—Classics, Moderns, Mathematics, Science

In case a candidate fails to secure fifty per cent in a paper that does not form part of the Honour Matriculation requirements for admission to a Honour Course, he will not necessarily be disqualified from competing for a Proficiency Scholarship, but such mark will not be taken into consideration in the Scholarship award

CLASSICS PROFICIENCY

Greek, Latin, English, French, History, Mathematics (Algebra and Geometry)

The First Edward Blake Scholarship, the gift of the late Hon Edward Blake, formerly Chancellor of this University, of the value of \$100, with free tuition for four years, of a total possible value of \$260

The Second Edward Blake Scholarship of the value of \$75, with free tuition for four years, of a total possible value of \$235

The Third Edward Blake Scholarship of the value of \$50, with free tuition for four years, of a total possible value of \$210

MODERNS PROFICIENCY

LATIN, ENGLISH, FRENCH, GERMAN, HISTORY, MATHEMATICS (Algebra and Geometry)

The First Edward Blake Scholarship, the gift of the late Hon Edward Blake, formerly Chancellor of this University, of the value of \$100, with free tuition for four years, of a total possible value of \$260

The Second Edward Blake Scholarship of the value of \$75, with free tuition for four years, of a total possible value of \$235

The Third Edward Blake Scholarship of the value of \$50, with free tuition for four years, of a total possible value of \$210

MATHEMATICS PROFICIENCY

LATIN, ENGLISH, FRENCH, MATHEMATICS (Algebra, Geometry, Trigonometry, Problems), Physics

The First Edward Blake Scholarship, the gift of the late Hon Edward Blake, formerly Chancellor of this University, of the value of \$100, with free tuition for four years, of a total possible value of \$280

The Second Edward Blake Scholarship of the value of \$75, with free tuition for four years, of a total possible value of \$235

The Third Edward Blake Scholarship of the value of \$50, with free trition for four years, of a total possible value of \$210

SCIENCE PROFICIENCY

LATIN, FRENCH, MATHEMATICS (Algebra, Geometry, Trigonometry), SCIENCE (Physics, Chemistry, Biology)

The First Edward Blake Scholarship, the gift of the late Hon Edward Blake, formerly Chancellor of this University, of the value of \$100, with free tuition for four years, of a total possible value of \$260

The Second Edward Blake Scholarship of the value of \$75, with free tuition for four years, of a total possible value of \$235

The Third Edward Blake Scholarship of the value of \$50, with free tuition for four years, of a total possible value of \$210

SPECIAL PROFICIENCY SCHOLARSHIPS

Candidates for these scholarships are required to obtain First Class Honours in at least one Department

The Prince of Wales Scholarship, the gift of the late King Edward VII, of the value of \$50, shall be awarded to the candidate standing highest in English and French who is also awarded one of the preceding scholarships

- U The Gibson Scholarship, the gift of the Hon Sir John M Gilson, of 8100, with free tutton for three years, of a total possible value of \$220 This scholarship shall be awarded to the candidate who, qualifying for one of the preceding scholarships and acculding the Prince of Wales Scholar, has the highest aggregate in the subjects of Latin. Benjath, French. History. Alcebra and Geometry.
- This scholarship is open for competition only to students who have stated their intention of enrolling in University College, and is not tenable with any other matriculation scholarship awarded by the University, except a Gibson Pass Matriculation Scholarship
- V The Hamilton Faske Biggar Scholarship of the value of \$100 with free tutton for three years, of a total possible value of \$220 This scholarship shall be awarded to the candidate who, qualify ing for one of the preceding scholarships and excluding the Prince of Wales Scholar, has the highest aggregate in the subjects of Latin, English, French, History, Algebra and Geometry
- T The Upper Canada College-Trinity Scholarship, the gift of Upper Canada College Old Boys, who are alumni of Trinity College, of the value of \$100

The successful candidate must obtain first class honours in at least one department. Pass papers rank at half the value of Honour papers. The sum of \$60 will be paid in equal terminal instalments in the first year, and \$40 in the second year.

T The F A Bethune Scholarship, the gift of the trustees of the F A Bethune Memorial Fund, of the value of \$60

This Scholarship will be awarded to the eanddate from Trinity College School, Port Hope, who obtains the highest number of marks, being not less than two-thirds of the total, at the Honour Matriculation Examination, and becomes and continues a resident undergraduate of Trinity College, Toronto, for the whole of the year for which he holds the Scholarship M. The Silver Eosseonal I ubbles Scholarship, the gift of the Toronto

Subdivision of the Catholic Women's League of Canada, in honour of the Silver Jubilee of the Most Rev Neil McNeil, Archbishop of Toronto, of the value of \$100

This Scholarship open for competition only to women students residing in Toronto

ENGLISH, HISTORY AND CLASSICS

T The Bishop Strachan Scholarship, founded in memory of the first Bishop of Toronto, of the value of \$40 a year for two years

ENGLISH, HISTORY, LATIN AND FRENCH

T The Dickson Scholarship, the gift of the late William Dickson, Esq , of the value of \$60 a year for two years

SCHOLARSHIPS IN ONE DEPARTMENT

Candidates for these scholarships must obtain first class honours in their departments

CLASSICS-GREEK AND LATIN

The First Edward Blake Scholarship, the gift of the late Hon Edward Blake, formerly Chancellor of this University, of the value of \$90, with free tuition for four years, of a total possible value of \$250

The Second Edward Blake Scholarship of the value of \$60, with free tuition for four years, of a total possible value of \$220

The First Mary Mulock Scholarship, the gift of the late Mrs Mulock, of the value of \$60, with free tuition for three years, of a total possible value of \$180

The Second Mary Mulock Scholarship, the gift of the late Mrs Mulock, of the value of \$80, with free tuition for two years, of a total possible value of \$140

- C The McCaul Scholarship, the gift of G A H Fraser, M A, formerly Fellow in Classica 1889-91, Andrew Melville Stewart, M A, LL B, Honour graduate in Classics, 1891, and Principal Hutton, of the value of \$75, with free tuition for four years, of a total possible value of \$2035.
- V The Moses Henry Aikins Scholarship, the gift of the late Moses Henry Aikins, B A, 1855, M D, of the value of \$100, with free tuition for four years, of a total possible value of \$280
- V The Flavelle Scholarship, the gift of Sir J W Flavelle, Bart , LL D , of the value of \$80, with free tuition for three years, of a total possible value of \$180
- V The W E H Massey Scholarship, the gift of the late W E H Massey, Esq, of the value of \$50 with free tuition for two years, of a total possible value of \$130
- T The Wellington Scholarship, founded by the first Duke of Wellington, of the value of \$60 a year for two years

GREEK

The George R R Cockburn Scholarship, the gift of the late Mary Cockburn Awarded to the successful candidate at the scholarship examination who ranks highest in First Class Honours in Greek

This scholarship is tenable with any other University scholarship

Moderns-English, German, French

The First Edward Blake Scholarship, the gift of the late Hon Edward Blake, formerly Chancellor of this University, of the value of \$90, with free tuition for four years, of a total possible value of \$250

The Second Edward Blake Scholarship of the value of \$60, with free tuition for four years, of a total possible value of \$220

- V The Moses Henry Aikins Scholarship, the gift of the late Moses Henry Aikins, B A, 1855, M D, of the value of \$100, with free tuition for four vears, of a total possible value of \$280
- T The Dickson Scholarship, the gift of the late William Dickson, Esq., of the value of \$60 a year for two years

MATHEMATICS-ALGEBRA, GEOMETRY, TRIGONOMETRY, PROBLEMS

The First Edward Blake Scholarship, the gift of the late Hon Edward Blake, formerly Chancellor of this University, of the value of \$90, with free tuition for four vers, of a total possible value of \$250.

The Second Edward Blake Scholarship of the value of \$60, with free tuition for four years, of a total possible value of \$220 each

- V The Moses Henry Aikins Scholarship, the gift of the late Moses Henry Aikins, B A, 1855, M D, of the value of \$100, with free tuition for four years, of a total possible value of \$260
- T The Wellington Scholarship, founded by the first Duke of Wellington, of the value of \$80 a year for two years
- T The Professor William Jones Scholarship, founded in memory of the late Reverend William Jones, M A, D C L, by relatives and other personal friends It is open only to students matriculating from Trinty College School, Port Hope

SCIENCE-PHYSICS, CHEMISTRY, BIOLOGY

The First Edward Blake Scholarship, the gift of the late Hon Edward Blake, formerly Chancellor of this University, of the value of \$90, with free tuition for four years, of a total possible value of \$250

The Second Edward Blake Scholarship of the value of \$60, with free tuition for four years, of a total possible value of \$220

- V The Moses Henry Askins Scholarship, the gift of the late Moses Henry Askins, B A, 1855, M D, of the value of \$100, with free tuition for four years, of a total possible value of \$280
- T The Burnside Scholarship, founded in memory of the late Dr Burnside, of the value of \$40 a year for two years

SPECIAL SCHOLARSHIPS AND BURSARIES

THE JOHN MCCRAE SCHOLARSHIPS

Two Scholarshup, each known as "The John McCrae Scholarshup," and of the value of approximately \$275 per year for four years, have been founded in memory of the late Leutenant-Colonel John McCrae, B A, M D, of Montreal, one time Fellow in Biology of the University of Toronto, physician, solder, poet, who ded in France in January, 1918

The purpose of the Scholarshups is to assist youths of ability, promise and approved academic standing, who desire to acquire the education represented by an Arts degree, but whose circumstances are such as to make the fullifiament of that desire impracticable without assistance. It is, moreover, desired that the Scholarshups should be used to stimulate such ambition among the pulse of the Guelph Collegate Institute, John McCrae's home and boyhood school from which he matriculated and entered the University of Toronto. The award will, therefore, be limited to Matriculants into the University of Toronto from the Guelph Collegate Institute, of falling eligible and acceptable candidates therefrom in any

year, from among other Canadian Maticulants The award shall go to a male candidate if there be one eligible and acceptable—if not, the award may, in exceptional cases, be made to a female A scholar may be chosen from matriculants of the year in which the award is made or the previous year. If the award is made to a matriculant of the previous year is made or the previous award is made to a matriculant of the previous year, and one year of the scholar's course for degree has already been passed, the award may be Instelled to the remaining three years of the course

The selection of the scholars shall be made by a Committee composed of the President of the University, the Principal of Guelph Collegate Institute, and a member or nominee of the family of the late John McCrae II in any year, an acceptable candidate is not found, the award need not then be made, but may be postponed to the following year, but such post-ponement shall not affect the next succeeding Scholarshp, which shall be offered in the year in which in due course it would otherwise have been existeble.

Every successful candidate shall, as a condution of the award, sign a declaration of intention to proceed to a degree in Arts in the University of Toronto, and must attend lectures for the academic year immediately following the award, unless permission is grainted by the Senate upon the recommendation of the Faculty for the postponement of attendance for a year. The candidate shall also sign a promise to repay to the University any sums paid to him on account of the Scholarship, if from any cause not beyond his control he shall fail to complete the full course in Arts leading to a degree II, during the currency of the Scholarship, the candidate shall fail to maintain a satisfactory standard of efficiency in escholarship and good conduct, the award may, as to further payments, be cancelled by the selecting body after consultation with the University authorities

One of these Scholarships will be offered in 1926 and in every second year thereafter Candidates are required to make a special application on a form to be obtained from the Registrar One factor in determining the award will be the character of the work shown at the Scholarship Matriculation Examination conducted by the Department of Education of Ontario

THE ONTARIO HOCKEY ASSOCIATION WAR MEMORIAL SCHOLARSHIP

The Ontario Hockey Association War Memorial Scholarship of the value of \$100.00, the gift of the Ontario Hockey Association, to be awarded anifhally at Matriculation to a male student who has served overseas with the Canadian Forces in the Great War of 1914-1918, or to a student who is the son or daughter of one who has so served

This Scholarship will be offered for competition for the first time in

THE WILLIAM HARDIE SCHOLARSHIP

The William Hardie Scholarship of the value of \$100, with free tuition for three years, of a total possible value of \$220, was founded in 1922 by friends in Ottawa and Perth in memory of William Hardie, BA, an ex-pupil and Classical Master (from 1905 until his death in 1920) of Ottawa Collegiate Institute

This Scholarship is to be awarded annually on the basis of the Scholarship Matriculation Examination of this University to the candidate of Octawa Collegate Institute who, having fulfilled all other conditions, ranks highest in First or Second Class Honours in any two of the following subjects—Latin, Greek, English.

This Scholarship is not tenable with any other Honour Matriculation Scholarship awarded by the Senate of the University

The award shall be made by the Senate of the University

THE ROBERT BRUCE BURSARY AND SCHOLARSHIP

The Robert Bruce Bursary, founded from the estate of the late Robert Bruce of Quebec, of the value of \$50, tenable for one year, shall be open to students in the Faculties of Arts and Medicine with complete matriculation who have displayed marked excellence at the Honour Matriculation examination, subject to the conditions set forth below

The Robert Bruce Scholarship, of the value of \$85, tenable for one year, shall be open to students in the Faculties of Arts and Medicine with complete matriculation who have displayed marked excellence at the Honour Matriculation examination, subject to the conditions set forth below

The Robert Bruce Bursary and Scholarship shall be open only to students (a) who are of Scottash extraction, (b) who have complete matriculation in this University as at the date of entrance, (c) who without some such assistance would be hampered entering upon a course of study in the University.

A student, who already holds a scholarship of the value of at least \$100, exclusive of free tuition, cannot qualify for either the Scholarship or the Bursary

The Committee of Award shall consist of the President of the University, and the Deans of the Faculties of Arts, Medicine, and Applied Science and Engineering

Applications for the Bursary and the Scholarship should be made to the Registrar of the University

THE MOSES HENRY AIRINS SCHOLARSHIPS

V Ten scholarships (including the four mentioned above) each known as the Moses Henry Aikins Scholarship, and each of the value of \$100 with free tutton for four years, of a total possible value of \$200, have been founded by the bequest of the late Moses Henry Aikins, BA, 1855. M D. of Burnhamthore

In each year some of these scholarships will be available for award to candidates who have shown special excellence in the Matriculation Examinations and are deemed to be of scholarship rank, but who may not have qualified for scholarships in any of the recognized groups of subjects

THE LEONARD MCLAUGHLIN SCHOLARSHIP

T. This scholarship has been endowed by Mr and Mrs Michael Mc-Laughlin, of Toronto, in memory of their only son Leonard, who was at the time of his death, December 10th, 1899, an undergradiant of Trinity College. As he was a pupil at Upper Canada College from 1890 to 1895, only pupils of that school are eligible for the scholarship. This award will be made by a board consisting of the Provost of Trinity College with the Principal and the Classical Master of Upper Canada College to such candidates as, without written examinations, shows evidence of possessing good scholarship in Classica, as well as manliness, a sense of honour, and a strong moral character. Failing a suitable candidate in Classics, the Board may at its discretion select one in Modern Languages, though it is not under any obligation to make a selection in any given year

Successful candidates must pursue a course of study in Classics or Modern Languages to the satisfaction of the Board In case of necessity, to be by it determined, the Board may allow a postponement of the time of beginning the course or an interruption of the same

The scholarship is worth \$500, \$125 will be paid to successive holders at the end of each Term in the First and Second Years

THE COOPER EXHIBITION

T These two exhibitions, founded by the Rev. C W Cooper, of the value of \$100 each, are open to any matriculated student of Trinity College not holding a scholarship, with a preference to the sons of elergymen The exhibitioners are nominated by the Most Reverend the Lord Bishop of Toronto

COPPORATION RITPEAPIRE

T The Corporation has provided that five Bursaries of a value of \$80 per anaum be open every year for a period not exceeding three years. Any student who shall have passed the Matriculation examination, and shall have satisfied the Executive Committee that he cannot without the aid thus afforded, avail Immelf of the advantage of a University education, will be eligible for a burrary, provided that he

is not the holder of a scholarship or exhibition Caeleris paribus the sons of clergymen will be preferred

Scholarships, exhibitions and bursaries will be forfeited if the holder fails to keep a term, or to pass any examination at the regular time

DAUGHTERS OF THE EMPIRE BURSARY

The Imperial Order, Daughters of the Empire, has established a War-Memorial Bursay in each province of the Dominnon, of the value of \$300 a year for four years, to be awarded to the candidate in either the Junior or the Honour Matriculation evanimations who, in the judgment of the Committee, but meets the purpose in vew in the foundation of the Bursary. The candidate must be the son or daughter of a killed or totally disabled solder, sailor or member of the Air Force. In case the holder of the Bursary for the Province of Ontaino elects to study at the University of Toronto has fees while be remutted to the extent of \$25 are provided the student has passed satisfactorily his examinations for the oreceding year.

Information respecting the Ontano Bursary may be obtained from the Provincial Educational Secretary, I O D E, Y W C A Buikling, Main Street, Hamilton, Ontario, from whom forms of application may be secured.

PRESCRIPTION OF COURSES

PASS MATRICULATION

GREEK

Translation into English of passages from the prescribed texts, with questions thereon

Translation at sight of simple narrative passages similar to the Xenophon prescribed

Questions on Greek accidence and on the common rules of Greek syntax to test the candidate's accuracy and comprehension in such matters as are needful for the intelligent reading of his texts.

The following are the prescribed texts -

1925 Xenophon, Philpotts and Jerram, Easy Selections from Xenophon, chaps 3, 4, 5, Rennie's Selections from Homes (Edward Arnold, London), Iliad, I, 148-192, 223-246 and 345-363, III, 139-190, VI, 369-502, XXII, 273-363

1926 Xenophon, Philpotts and Jerram, Easy Selections from Xenophon, chaps 3, 4, 6, Rennie's Selections from Homer (Edward Arnold, London), Odyssoy, I, 113-177, V, 291-327, VI, 71-126, IX, 437-472, XII, 165-200, XIV, 1-54, XVII, 290-327, XXII, 1-41

1927 The same as 1925

Two papers will be set (1) Prescribed texts, (2) translation at sight, accidence and syntax

LATIN

Translation at sight of passages of average difficulty from Cæsar, upon which special stress will be laid

Translation, with questions, from a prescribed portion of Virgil's Æneid Examination (not to include translation) upon a short prescribed portion

of Casar, to test the candidate's knowledge of Latin Syntax

Ouestions on Latin accidence.

Translation into Latin of English sentences involving a knowledge of the vocabulary and constructions found in the Ontario High School Latin Book, pages 1-420, omnting all the sections after 500 which are printed in small type, and also the following 530, 554, 563 (c), 630, 631, 632, 635, 637, 665, 672, 675 The following are the prescribed texts ---

1925 Caesar, De Bello Gallico, Book V, chaps 1-23, Selections from Virgil (W J Gage & Co) Sections 1, 2, 3, 4, 15, 16

1926 Caesar, De Bello Gallico, Book IV, chaps 20-38, Selections from Virgil (W J Gage & Co) Sections 1, 6, 8, 9, 11, 13, 14, 15

1927 Caesar, De Bello Gallico, Book V, chaps 1-23, Selections from

Virgil (W J Gage & Co) Sections 1, 5, 7, 10, 12, 17

Two papers will be set (1) Latin Authors, including Virgil, Cæsar and Sight Translation, (2) Latin Composition and Grammar

ENGLISH

COMPOSITION An essay on one of several themes set by the examiners in order to pass in this subject, legible writing, correct spelling and punctuation, and idiomatic and grammatical construction of sentences are indispensable. The candidate should also give attention to the structure of the whole essay, the effective ordering of the thought, and the accurate employment of a good English voorbolsary. About two pages of fooliceap is suggested as the proper length for the essay, but quality, not quantity, will be mainly regarded

One examination naner

LITERATURE Such questions only will be set as may serve to test the candidate's familianty with, and intelligent and appreciative complete heason of, the prescribed texts The candidate will be expected to have memorated the passages prescribed below In addition to the question on the prescribed selections, others will be set on a "sight passage" to test the candidate's ability to interpret literature for himself.

The candidate shall produce satisfactory proof, by the certificate of the principal of the school from which he comes or otherwise, that he has read carefully, during the preceding year, at least four suitable works in English literature (both prose and poetry) in addition to those prescribed below for examination

One examination paper

The following are the prescribed texts -

1925 Intensive work—Shakespeare, The Merchant of Venice, extensive work—Part I of Collection of Shorter Poems

1926 Intensive work—Shakespeare, Julius Caesar, extensive work—Part II of Collection of Sborter Poems

1927 Intensive work—Shakespeare, Macbeth, extensive work—Part III of Collection of Shorter Poems

1928 Intensive work—Shakespeare Henry V, extensive work—Part IV of Collection of Shorter Poems

PASSAGRS FOR MEMORIZATION

1025

Shakespeare, The Merchant of Venice,

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Act I, Sc 1, II 79-99 Let me play their brothers fools
Act II, Sc 9, II 38-49 Who chooseth me to be new varnished
Act IV, Sc 1, II 184-205 The quality of mercy
Act V, Sc 1, II 184-205 The crow doth sine true proportion
Act V, Sc 1, II 102-108 The crow doth sine true proportion
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Collection of Shorter Poems—Part I Shaksspeare, Sonnet xxix, Milton, On his Blindness, Wordsworth, London, 1802, Blanco White, To Night, Tennsion, "Of old sat Freedom", "Home they brought", Rossetti, Sudden Light, Hardy, The Division, Davies, The Green Tent, Campbell, How One Winter Came in the Lake Region.

1926

Shakespeare, Julius Caesar

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Act II, Sc 1, II 49-00 O you hard hearts on this ingratitude Act III, Sc 1, II 148-163 O mighty Caesar Spirits of this age Act III, Sc 2, II 178-193 If you have tears flourisated over us Act IV, Sc 2, II 19-27 Thou hast described in the trial Act V, Sc 2, II 68-75 This was the noblest was a man
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Collection of Shorter Poems—Part II Byron, "There was a sound of revelry" (II 1-45), Tennyson, "You ask me why", St. Agnev Eve, Hardy, "Hen I set out for Lyonesse", Lang, Good-bye, Yeats, The Lake Isle of Innisfree, De la Mare, The Scribe, Carman, An April Morning

1927

Shakespeare, Macbeth

| Act Act Act Act Act | I, Sc I, Sc II, Sc III, Sc III, Sc V, Sc V, Sc | 7, 11 1, 11 2, 11 2, 11 3, 11 3, 11 | 1- 28 33- 64 4- 26 45- 56 22- 28 39- 45 | | e on the other er to hell |
|---------------------------------|--|--|--|-----------------------|---------------------------------|
| | V, Sc V, Sc | | | Cure her The Queen | the heart signifying nothing |

Collection of Shorter Poems—Part III "It is not to be thought of", "A weary lot is thine", Pibroch of Donald Dhu, "The splendour falls", Far-Far-Away, The Passing of Spring.

1928

Shakespeare, Henry V
Act I, Sc I, Il 1- 18 O for a muse imaginary forces work

Act III, Sc 1, II 1- 34 Once more into the breach and St George
Act IV, Sc 3, II 40-67 This day is called St Crispian's Day
Collection of Shorter Poems—Part IV The Tiger, Song ("The sun upon

Collection of Shorter Poems—Part IV The Tiger, Song ("The sun upon the lake"), "You ask me why", St. Agnes' Eve, When I set out for Lyonesse, The Lake Isle of Innisfree, The Scribc, "When it is finished"

*FRENCH

The candidate's knowledge of French will be tested by (1) simple questions on grammar, (2) the translation of simple passages from English into French, (3) translation at sight of easy passages from modern French, and (4) an examination on the following texts —

The texts contained in the New High School French Reader.

1925 George Sand, La Petite Fadette (Oxford University Press), Labiche, La Grammaire

1926 Daudet, La Belle Nivernaise (edition to be selected), Momaux, Les deux Sourds

1927 Daudet, Le Petit Chose à l'école (Blackie Edition, Copp Clark Co), Labiche, Les Petits Oiseaux

Two papers will be set (1) Prescribed texts and translation at sight, questions on grammar, (2) the translation of English into French.

*GERMAN

The candidate's knowledge of German will be tested by (1) simple questions on grammar, (2) the translation of simple passages from English into German, (3) translation at 19th of easy passages from modern German, and (4) an examination on the following texts.—

The texts contained in the High School German Reader with the exception of Von Fallersleben, Deutschland über Alles

1925 Chamisso, Peter Schlemihl, Benedix, Der Prozess

1926 Gerstacker, Germelshausen, Seidel, Der Unsichtbare (Blackie), Elz, Er ist nicht eifersflichtig

1927 Storm, Immensee, Fulda, Unter vier Augen

1928 Arnold, Fritz auf Ferien, Ebncr-Eschenbach, Krambambuli, Benedix, Der Prozess

Two papers will be set (1) Prescribed texts and translation at sight,

questions on grammar, (2) the translation of English into German

^{*}When the edition is not specified, any unabridged edition may be used.

SPANISH

The candidate's knowledge of Spanish will be tested by (1) questions on gramma; (2) the translation of sentences and connected narrative from English into Spanish, (3) composition in Spanish, (4) translation at sight from Spanish, (5) an examination on the following rext —

1925, 1926, 1927 Benavente, El Principe que todo lo aprendió en los libros (World Book Co.), Hills and Cano, Cuentos y leyendas (Heath & Cano)

1928 Hills and Cano, Cuentos y leyendas (Heath & Co), Selgas, La Mariposa blanca (Heath & Co)

Two papers will be set (1) Prescribed text and translation at sight, questions on grammar, (2) the translation of English into Spanish and composition

TTAI IAN

The candidate's knowledge of Italian will be tested by (1) questions on grammar, (2) the translation of sentences and connected narrative from English into Italian, (3) translation at sight from Italian, (4) an examination on the following text —

1925, 1926, 1927 Bowen, Italian Reader (Heath & Co.), Goldoni, La Locandiera (Heath & Co.)

1928 Bowen, Italian Reader (Heath & Co), Goldoni, Il vero amico (Heath & Co)

Two papers will be set (1) Prescribed text and translation at sight, (2) questions on grammar and translation of sentences illustrating the grammar

HISTORY

BRITISH HISTORY —Great Britain from 1688 to 1920 The geography relating to the history prescribed One examination paper

Note —The following sections of the course given below are obligatory, viz, 1, 4, 5, 6, and 15. Candidates must also take one of the options in each of (a) and (b) below

(a) Section 2 and section 3, or section 13 and section 14

(b) Sections 7, 8 and 9, or sections 10, 11, and 12

1 Political development 1688 to date

The Bill of Rights, the significance of the Revolution of 1688

Origin and development of partics and party government

Biographical sketches of the great Prime Ministers Walpole, Pitt, Jr Grey, Russell, Melbourne, Peel, Palmerston, Gladstone, Disraeli, Salisbury, Balfour, Asquith, Lloyd George

Extension of the franchise The Reform Bills of 1832, 1867, 1884, 1918, etc

Restriction of the powers of the House of Lords

- 2 The American Revolution
- 3 The French Revolution, the war with France, 1793-1802, the struggle with Napoleon
 - 4 The Industrial Revolution
 - 5 The development of the British Empire in territory and in govern-
- 6 The social life of the people
- (a) Phases agriculture, commerce, industry, transportation, class distinctions, amusements
 - (b) Legislation, eg, Factory Acts
 - 7 Literature
 - 8 Education in the 19th and 20th centuries
 - 9 Religion
 - 10 Ireland
 - 11 External relations, including brief study of nations concerned
- 12 The British Navy The place of sea-power in the development and maintenance of the British Empire
 - 13 The Great War, especially the part played by the British Empire
 - 14 The League of Nations
 - 15 Civics
- Government, with special emphasis on provincial, federal, and imperial government
- A study of the following aspects of the production and distribution of wealth
 - (a) The dependence of the citizen upon others for the wealth he uses
 (b) Co-operation and division of labour
 - (c) The effects of industrial development upon community life
- (d) The distribution of wealth in wages, salaries, profits, dividends, interest, and rent
- (e) Saving (f) What the government does to regulate the production and distribution of wealth
 - (g) Voluntary organizations aiding or regulating industry

BOOKS OF REFERENCE

The following books will be found useful for supplementary reading on the topies of the course, and should be placed in every High School library Mowar, A new History of Great Britain, Parts II and II, Oxford Press, Gardiner, A Student's History of England, Longamas (or Part III, which deals with the period 1899-1919), McCarthy, England in the Nineteenth Century, 2 volse, Putnam, Trevelyan, Britait History in the Nineteenth Century, Longmans, Bell's English History Source Books, Volse VII-XI, 1714-1857, G Bell & Sons, Kendall, Source Book of English History, Macmillan, Pierr Plowman Social and Economic Histories, Vols V, VII-XI, UII, George Phip & Son, London, Cheney, Industral and Social History of England, Macmillan, Hamilton, How the Fight was Won, Ontario Department of Education, Everyman's Literary and Historical Atlas of Europe, Dent, Philip's Junior Historical Atlas, George Philip & Son

ANCIENT HISTORY—General outlines of the History of Greece to the death of Alexander and of the history of Rome to the death of Augustus, with a biref outline of the art, literature, philosophy, and social life of the Greeks and Romans The geography relating to the history persented One examination page.

GREECE—The Early Greek World effects of geographical features, earlier civilizations, first period of colonization, Homericage, story of Troy, the City State, life of the people, contributions to later Greek civilization

Period of Development colonal expansion, rise of Sparta, classes of society, government aristocratic constitution, myth of Lycurgus, strength and weakness, rise of Athens to Democracy, abolition of monarchy, the aristocracy (general statement only), Draco, Solon, the tyranny Pisstratus, the democracy (general statement only), Clesthenes, Intellectual awakening The struggle for freedom war with Persa, conquest of Asiatic Greece, Marathon, Themistocles, the navy, invasion under Kerxes Thermopylae, Salamis, historic importance of Marathon, results of struggle on Athens

The Athenian Empire confederacy of Delos, government under Pericles, the Golden age, social conditions of people, strength and weakness of Athenian democracy, our debt to Athens

Discord and Decline the Peloponnesian Wars (no details regarding battles) Causes direct, indirect Firststage land power versuses power, death of Percles Second stage the Sicilian expedition, Alcibades Downfall of Athens Lysander, terms of peace Leadership of Sparta (in brief outline) expedition of Cyrus, retreat of the "Ten Thousand", Xenophon, effects of Spartan wolence, Liberation of Thebes, Pelopidas, battle of Leucra, significance Leadership of Thebes Epaminandas, battle of Mantinea Ruse of Macedon the country and people Philip Thebes and Philip, Philip and his army, war with Athens Chaeromea, Demosthenes Greece under Philip Alexander education, conquests battle of Issus; founding of Alexandra, battle of Arbela, organization of Empire, death and character, results of his conquests. Contribution of Hellas to civilization art. Interature, bulloscohy

Roxx —Early Italian world effects of geographical position, physical estures of Italy, tribes of Italy, legendary beginning of Rome (without details of kings) Rome under the kings family life, religion, social classes, government The early Republic the aristocratic Republic, struggle with the Plebs The charters of Liberty (without details) the twelve tables, Licinian laws, Hortensian laws, the Roman democracy (general statement only). Early struggle for existence stories of Cincinnatus and

Camillus Conquest of Italy Latin and Samute wars (no details), causes of Rome's success Italy organized under Rome (general statement only) social conditions. The Punic wars, the First Punic war. The Carthamanage Empire comparison with Rome Struggle for Sicily outline of events, results The Second Punic war the Carthaginians in Spain, the invasion of Italy, Hannibal's victories in outline, conquest of Spain by Scious, battle of Zama, results of the war. The Third Pume war destruction of Carthage, Carthage a Roman province. The conquest of the East the struggle with Macedonia (general statement only), destruction of Corinth. Greece a Roman province, war with Syria, effects of conquests on art and literature, on customs and religion, on social conditions, on political organization Growth of Plutocracy evil effects, Coto Period of Civil Strife-Military Rule causes of strife (see previous chapter), the reforms of the Gracchi Marius therise of Marius, Iugurtha, the social war Sulla the Mithridatic wars, the Sullan constitution, first Civil war senate made supreme Rise of Pompey Sertorius, Spartacus, Pompey as consul, conquests in the east, conspiracy of Catiline. Cicero. the first Triumvirate Rise of Caesar conquests in Gaul, second Civil War, cause, defeat of Pompey, Caesar's government and death, Caesar's reforms Founding of the Empire Caesar's heir, the second Triumvirate, defeat of Antony, government under Augustus, the Augustus policy extent of the empire The Augustine Age literature, public works, birth of Christ

BOOKS OF REFERENCE

The following books will be found useful for supplementary reading on the topics of the course, and should be placed in every High School library Forested, Ancient Times, Ginn & Co., Bousford, A. History of Greece, Macmillan, Pellsam, Outlines of Roman History, Putnam, Havel, Republican Rome, Ballaintyne Frees, Cotterill, Ancient Greece, Ballantyne Press, Botsford, A Source Book of Ancient History, Macmillan, Murch & Source Book of Roman History, Haentilla & Greek History, Heath & Co., Timanatons of the histories of Herodotus, Thucyddes, Polybus and Livy, Gunn's Classical Atlas, Gunn & Co.

MATHEMATICS

ALGERIA—Elementary rules, factoring, highest common measure, lowest common multiple, fractions, simple equations of one, two and three unknown quantities, extraction of roots, more advanced factoring, simple graphs, simple ratio and proportion, indices, surds, quadratics of one and two unknown quantities, theory of quadratics

One examination paper.

GROMETRY -A -CONSTRUCTIONS

To construct a triangle with sides of given lengths

To construct an angle equal to a given rectilineal angle

To bisect a given angle

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To bisect a given straight line

To draw a straight line perpendicular to a given straight line from a given noint in it

To draw a straight line perpendicular to a given straight line from a given point not in the line

Locus of a point equidistant from two given straight lines

Locus of a point equidistant from two given points

To draw a straight line parallel to another, through a given point

To divide a given straight line into any number of equal parts

To describe a parallelogram equal to a given triangle, and having an angle equal to a given angle

To describe a parallelogram equal to a given rectilineal figure, and having an angle equal to a given angle

On a given straight line to describe a parallelogram equal to a given triangle, and having an angle equal to a given angle.

To find the centre of a given circle

From a given point to draw a tangent to a given circle

On a given straight line to construct a segment of a circle containing ag angle equal to a given angle

From a given circle to cut off a segment containing an angle equal to a given angle

In a circle to inscribe a triangle equiangular to a given triangle. To find locus of centres of circles touching two given lines

To inscribe a circle in a given triangle

To describe a circle touching three given straight lines

To describe a circle about a given triangle

About a given circle to describe a triangle equiangular to a given triangle To divide a given straight line similarly to another given divided straight line

To find the fourth proportional to three given straight lines

To describe a polygon similar to a given polygon, and with the corresponding sides in a given ratio

To find the mean proportional between two given straight lines

To construct a polygon similar to a given polygon, and such that their areas are in a given ratio

To describe a polygon of a given shape and size.

B -THEOREMS

The sum of the angles of any triangle is equal to two right angles The angles at the base of an isosceles triangle are equal, with converse. If the three sides of one triangle be equal, respectively, to the three sides of another, the triangles are equal in all respects.

If two sides and the included angle of one triangle be equal to two sides and the included angle of another triangle, the triangles are equal in all respects

If two angles and one side of a triangle be equal to two angles and the corresponding side of another, the triangles are equal in all respects

If two sides and an angle opposite one of these sides be equal, respectively, in two triangles, the angles opposite the other pair of equal sides are either equal or supplemental

The sum of the exterior angles of a polygon is four right angles

The greater side of any triangle has the greater angle opposite it

The greater angle of any triangle has the greater side opposite it

If two sides of one triangle be equal respectively to two sides of another,

that with the greater contained angle has the greater base, with converse

If a transversal fall on two parallel lines, prove the relations between
angles formed, with converse

Lines which join equal and parallel straight lines towards the same parts are themselves equal and parallel

The opposite sides and angles of a parallelogram are equal and each diagonal bisects it

Parallelograms on the same base, or on equal bases, and between the same parallels are equal

Triangles on the same base, or on equal bases, and between the same parallels are equal

Triangles equal in area, and on the same base, are between the same

If a parallelogram and a triangle be on the same base, and between the same parallels, the parallelogram is double the triangle

Find expressions for area of a parallelogram, and the area of a triangle.

The complements of the parallelograms about the diagonal of any

parallelogram are equal

The aquare on the hypotenuse of a right-angled triangle is equal to the
sum of the sources on the sides

If a straight line be divided into any two parts, the sum of the squares on the parts, together with twice the rectangle contained by the parts, is equal to the square on the whole line

The square on a side of any triangle is equal to the sum of the squares on the two other sides + twice the rectangle contained by either of these sides and the projection of the other side on it

If more than two equal straight lines can be drawn from the circumference of a circle to a point within it, that point is the centre

The diameter is the greatest chord in a circle, and a chord nearer the centre is greater than one more remote. Also the greater chord is nearer the centre than the less

The angle at the centre of a circle is double the angle at the circumference on the same arc

The angles in the same segment of a circle are equal, with converse

The opposite angles of a quadrilateral inscribed in a circle are together equal to two right angles, with converse.

The angle in a semicircle is a right angle, in a segment greater than a semicircle less than a right angle, in a segment less than a semicircle greater than a right angle.

A tangent to a circle w perpendicular to the radius at the point of contact, only one tangent can be drawn at a given point on the circumference, the perpendicular to the tangent at the point of contact passes through the centre, the perpendicular from centre on tangent passes through the point of contact.

If two circles touch, the line joining the centres passes through the point of contact

The angles which a chord drawn from the point of contact makes with the tangent, are equal to the angles in the alternate segments

The rectangles under the segments of intersecting choids are equal

If OAB and OC be two straight lines, and OA OB = OC2, OC is a tangent to the circle through A, B, and C

Triangles of the same altitude are as their bases

A straight line parallel to the base of a triangle divides the sides proportionally, with converse

If the vertical angle of a triangle be bisected, the bisector divides the base into segments that are as the sides, with converse

The analogous proposition when the exterior angle at the vertex is bisected, with converse

If two triangles are equiangular, the sides are proportional

If the sides of two triangles are proportional, the triangles are equiangular

If the sides of two triangles about equal angles are proportional, the triangles are equiangular

If two triangles have an angle in each equal, and the sides about two other angles proportional, the remaining angles are equal or supplementary Similar triangles are as the squares on corresponding sides.

The perpendicular from the right angle of a right-angled triangle on the hypotenuse divides the triangle into two triangles which are similar to the original triangle

In equal circles angles, whether at the centres or circumferences, are proportional to the arcs on which they stand,

The areas of two similar polygons are as the squares on corresponding sides

If three straight lines be proportional, the first is to the third as the figure on the first to a similar figure on the second

Questions and easy deductions on the preceding constructions and theorems

It is recommended that the study of formal demonstrative Geometry be preceded by a course in Practical Geometry, extending over not more than a year, and embracing the following —

Definitions fundamental geometric conceptions and principles, use of simple instruments as compasses, portractor, graduated rule, etc., measurement of lines and angles, and construction of lines and angles of given numerical magnitude, accurate construction of glories, some teaching propositions in plane geometry reached by induction as a result of accurate construction of glories, decidented and saured. At the examination, questions may be given in Practical Geometry, the constructions being such as naturally spring from the prescribed course. Candidates must provide benselves with a graduated inference of the property of the pro

In the formal deductive Geometry modifications of Euclid's treatment of the subject will be allowed, though not required, as follows —

The employment of the "hypothetical construction"

The free employment of the method of superposition including the rotation of figures about an axis, or about a point in a plane. A modification of Euclid's parallel postulate.

A treatment of ratio and proportion restricted to the case in which the compared magnitudes are commensurable

One examination paper

EXPERIMENTAL SCIENCE

CEMMISTRY —An experimental study of the following elements and their more important compounds hydrogen, oxygen, sulphur, sodium, potassium, nitrogen, chlorine, bromine, iodine, carbon, calcium. The course of work should be arranged so as to give the pupils a knowledge of the following Mixtures, solitions, compounds, and elements, and their various properties and reactions, acids, bases, and salts. Fundamental laws and principles, as conservation of mass, default proportions, multiple proportions, valency, proportions by volume in which gases react. The quantitative meaning and use of chemical symbols, formulae and equations. Chemical nomenclature. Simple quantitative experiments and problems The application of chemistry to the midsteries, illustrated by an account of the commercial manufacture and use of some of the more important substances included in this course.

Physics —A course defined as follows, the topics to be presented experimentally with mathematical applications simple and direct in character SOUND —Vibratory motion illustrated with pendulums, rods, strings,

membranes, and plates
Types of wave motion illustrated by water waves, waves in a cord, and
waves in a couled spring

Production, propagation, velocity, and reflection of sound waves, wave lengths

Intensity, pitch

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Laws of vibration of strings, vibration of air in organ pipes, nodes and loops in wibrating strings, and in vibrating air columns, harmonies, quality, manometric flames

Interference phenomena, beats

Resonance

Heat—Sources of heat Transformation of other forms of energy into heat energy

Expansion due to heat Anomalous expansion of water and its importance in nature, expansion of gases, Charles' Law

Temperature and thermometers Construction and graduation of Centigrade and Fahrenheit thermometers, measurement of temperature on absolute scale

Quantity of heat Temperature as contrasted with quantity of heat, heat units, specific heat, determination of the specific heat of a solid and of a louid house

Fusion Determination of melting point of ice, heat changes in solution, determination of heat of fusion of ice, the influence of salt in solution on the freezing point

Vaporization Determination of heat of vaporization of water, dependence of boiling point on pressure and on the presence of salts in solution, evaporation, practical applications of cooling by aporization, ice machine

Transference of heat Conduction and convection, as illustrated in systems of heating by hot water and by steam, ventilation, radiation, radiant energy, effect of temperature and nature of surface, emission and absorption, selective absorption

The transformation of heat energy into the energy of mechanical motion as exemplified in the steam engine and in the gas engine

Heat in connection with meteorology, clouds, rain, winds, dew, frost, dew point, hygrometers (Regnault's and the wet and dry bulb hygrometer) Nature of heat Kinetic theory

LIGHT —Propagation Wave theory of light, rectilinear propagation, image through a pin-hole, photometry, shadow and grease-spot photometers

Reflection Laws of reflection, images in plane mirrors, images in spherical mirrors, drawing image of object in any position

Refraction Laws of refraction, index of refraction, its measurement, and its relation to the velocities of light in media, total reflection

Lenses Converging and diverging, determination of focal length, conjugate foci, drawing of images produced by lenses, vision through a lens, relation of the size of the image to the size of the object

Optical instruments Simple microscope, camera, projection lantern Colour Decomposition and recomposition of white light, spectrum, complementary colours, rambow MAGNITISM AND EMERGENCY—Magnetism Laws of mignetic attraction and repulsion, magnetic field, magnetic lines of force, magnetism by induction, magnetization, molecular theory of magnetization, magnetic permeability, terrestrial magnetism, manner's compass, inclination and declination of the magnetic needle

Electricity at rest Two kinds of electrification, conductors and nonconductors, gold-leaf electroscope, induced electrification, electricity at points and at surfaces, lightning rods, the Leyden jar, simple notions of electrical potential

Electric current: Production of electric current by voltaic cells, electromotive force of a voltaic cell, detection of the electric current, polarization and local action, simple notions of the relation of electromotive force, current strength, and resistance, names of units, Leclanche cell, dry cell, Daniell cell

Effects of the electric current Electrolysis, theory of electrolysis, electroplating, electroplysing, storage cell, laws of electroplysis, measurement of current strength by electrolysis, magnetic effects, electromagnet, relation between the direction of the current and the polarity of an electromagnet, the electric telegraph, the electric bell, the galvanometer, the DC motor, heating effects of the current, practical applications, electric stores, electric worlders, incandescent and are lamos

Induced currents Production of induced currents, laws of induced currents, Lenz's Law, the transformer, the induction coil, the telephone, a simple type of the A C and of the D C dynamo Reasons for the use of the A C current, differences in the uses of the A C and D C current, distribution of electricity as illustrated by the Hydro-Electric System

Electric measurements Units of current strength, resistance, and electromotive force, Ohm's Law, measurement of current strength, the ammeter, measurement of electromotive force, the voltmeter, measurement of resistance, the Wheatstone Bridge

Special forms of radiation Electric waves, wireless telegraphy

AGRICULTURE

PART I

AGRICULTURAL PHYSICS

Some—Classification and identification of samples of sail by the "beaker method into diay, Joan, day loom, saidy Joan and sand, comparison of two soils by the aid of a compound microscope, identification and study of soil in the fieldide, experiments to show the physical effects of little or heavy and on light soil, influence of air, cultivation and drainage on the action of limes.

Tillage Uses of plow, cultivator, scuffler, harrow and roller, experiments to show the use of mulches, and the action of frost on heavy soil

Drainage Methods and value, calculation of cost of tile drainage o a given area

SURVEYING —Use of instruments (including level and chain) for taking levels, running lines, calculation of areas

FARM MECHANICS—Care of tools and farm implements, experiments to show warping and splitting of wood on exposure to the weather, practice in sharpening such tools as chisel, knife and scissors, the use of levers and pulleys in machinery. principle of the internal-combustion engine

ELECTRICITY —Electricity at Rest Two kinds of electrification, conductors and non-conductors, gold leaf electroscope, induced electricity at points and surfaces, the Leyden jar, lightning-rods

Current Electricity Principle of voltaic cells, use of dry cells galvanometer, detection of the current, simple notions of electro-motive force, current strength and reastance including names of units, electromagnet, relation between the direction of the current and the polarity of a magnet, telegraph, electric bell, electric appliances—rons, stoves, welders, lamps, production of induced currents, laws of induced currents, the induction cut and transferred.

AGRICULTURAL CHEMISTRY

GENERAL—A brief experimental study of the following elements carbon, oxygen, hydrogen, introgen, phosphorus, sulphur, potassium, calcium, and the compounds of these elements used by green plants, chemical symbols, formulae and equations, chemical nomenclature

Note —It is intended that the student through experimental study shall become familiar with the above mentioned elements and their compounds which have direct bearing upon agriculture

SOMES—Experiments to show how the insoluble compounds of the soil containing calcium and phosphorus may be made soluble (e.g., the action of carbon dioxide and water on calcium carbonates and phosphates), a study of the amount of plant food constituents in soil, the necessity of an abundance of humus and lime (compounds of calcium), nitrification, means of getting nitrogen into the soil, special influence of nitrogen, phosphorus, and potassium compounds on the growth of plants, influence of period of growth, range of root, and ability of plants to assimulate food, on the problem of the manuring for different crops

BANNYARD MANUER AND FERTILEERS—Composition, care and treatment of barayard manure, commercial cources of nitrogen, phosphorus and potassum used to supplement barayard manure, experiments to prove the presence of and to show the relative solubility of the three plantfood elements in these materials and why certain of the materials should not be mixed, calculation of the percentage of available plantfood in different mixtures of fertilizer materials, explanations of the commercial terms "phosphoric acid" and "potash". The chief provisions of the Fertilizer Art. INSECTICIDES AND FUNGICIDES —An experimental study of arsenate of lead, arsenate of lime, Paris green, lime-sulphur, Bordcaux mixture, and orchard "dusts", why some insecticides and fungicides cannot be used in combination

PART II

BOTANY —Calculation of the percentage of foul seed in three or four samples of clover or alfalfa) and timothy, use of compound mercoscope in examining spores and mycellia, recognition, from specimens, of rusts, smuts, wither runt of cruderies, brown rot of stone fruits, milder of cherry or like and anthracnose of bean Chief provisions of Seeds Control Act and Naxiona Works &

ENTOMOLOGY—Identification, nature of injury, life history and methods of control of any six of the most common harmful insects of the district, e.g., white grub, wire worm, plum curculo, coding moth, San José scale, oyster shell scale, cabbage maggot, cabbage worm, Hessian fly, European corn borer, botato beetle, and clothes moth

POULTAY --Practical operation of the incubator--ventilation, moisture, candling eggs, variation in size of air chamber, blood clots, development of the embryo by examining eggs broken open every one or two days during the period of incubation; use of water-glass in preserving eggs, coultry products and marketing.

DAINING—Exneples and uses of the Baboock machine and the lactometer, tesuing cream and sism mulk for whey) for fat, determing whether mulk has been watered by use of the formula—(I. R. at 60) bulks % of falp—4% S.N.F. food value of mulk and its products, principle and use of the mulk separator, making butter with a laboratory churn, use of starters

FIELD CROPS—Different types of farming; crop distribution over charizo, meaning and importance of corp ortation, influence of the keeping of live stock on the kind of rotation, germination tests of seed, e.g., oats, turnips, corn, clover, laboratory work in seed judging and seed selection, meaning and merits of pasture crops, slage crops and soling crops, the yield and quality of crop as influenced by the time of sowing, calculation of the relative value of certain crops as "innery" crops

ANNAL HUSANDER—History and characteristics of the chief breeds of horses, cattle, sheep, swine, value and importance of live stock, a survey of the breeds found in the locality, meaning of pedigree stock and grade stock, disadvantage of keeping scrub stock, visit to a local farm to study the stock kept there.

O:

HORTICULTURE—Orchard management—spraying, pruning, grafting, cultivating, cover crops, packing and marketing apples, methods of producing early vegetables, practice in seeding, transplanting, cultivating mulching. fruit survey for at least two kinds of fruit

HONOUR MATRICULATION

GREEK

GREER

Translation into English of passages from the prescribed texts, with questions thereon

Translation at sight of prose passages of average difficulty from Xenophon's historical works

Translation into Greek of sentences (based upon Xenophon's vocabulary) to test the candidate's scholarship in matters of accidence, syntax and phraseology

The following are the prescribed texts -

1925 Xenophon, Hellenica (Philpotts' Selections, sections I and II), Homer, Iliad, I, 1-350, III, 124-244, VI, 66-118, and 237 to the end, Odyssey VI, Herodotus, Salamis (Edwards)

1928. Xenophon, Hellentac (Philpotta' Selections, sections I, II, and III), Herodotus, Salams (Edwards), Rennie's Selections from Homer (Edward Arnold, London), Ihad I, 148-192, 223-246, 345-333, III, 139-190, VI, 369-502, XXII, 273-338, Odyssey I, 113-117, V29-1327, VI, 71-126, IX, 437-472, XII, 185-200, XIV, 1-54, XVII, 290-327, XXII, 1-41

1927 The same as 1926

Two papers will be set (1) prescribed texts, (2) translation at sight and Greek prose composition

LATIN

Translation into English of passages from prescribed texts, with grammatical questions on these passages and such other questions as arise naturally from the context

Translation at sight of a passage of average difficulty from Caesar

Translation into Latin of English sentences to illustrate Latin syntax, and of a continuous passage of English narrative similar to Caesar

The following are the prescribed texts -

1925 Caesar, De Bello Gallico, Book V, chaps 24-58, Cicero, In Cathinam I, Horace, Odes as follows Book I, 1, 4,, 5, 9, 21, 22, 24, 29, 31, 37, 38, Book II, 3, 10, 13, 14, 16, Book III, 1, 2, 5, 7, 9, 13, 18, 23, 29, 30, Book IV, 3, 5, 7

1926 Caesar, De Bello Gallico, Book V, chaps 24-58, Cicero, In Catilinam I, Horace, Odes as follows Book I, 1, 4, 5, 8, 9, 10, 14, 22, 24, 38, Book II, 3, 7, 10, 14, 20, Book III, 1, 3, 5, 8, 9, 13, 16, 21, 23, 30, Book IV, 3, 5, 7, 15

1927 The same as 1925

Two examination papers

(1) Latin Prose Composition and Caesar

(2) Cicero, Horace and Sight Translation

ENGLISH

Composition An essay on one of several themes set by the examiners One examination paper

LITERATURE The candidate will be expected to have memorized some of the finest passages Besides questions to test the candidate's familiantly with, and comprehension of, the following selections, questions may also be set to determine within reasonable limits his power of appreciating literary art.

The candidate shall produce satisfactory proof by the certificate of the principal of the school from which-he comes or otherwise that he has read carefully, during the preceding year, at least four suitable works in English literature (both prose and poetry) in addition to those prescribed below for examination.

1925 Intensive work—Shakespeare, The Merchant of Venice, Gray, Elegy Written in a Country Churchyard, Goldsmuth, The Deserted Village, Wordsworth, Ode to Duty, Tennyson, Lancelot and Elaine Extensive work—Shakespeare, Henry IV, Part I, Elnot, The Mill on the Floss, Part I of Colloction of Shorter Poems

1926 Intensive work—Shakespeare, Julius Caesar, Milton, L'Allegro, Coleridge, The Rime of the Ancient Manner, Keats, The Eve of St Agaes, Tennyson, Ode on the Death of the Duke of Wellington Extensive work—Shakespeare, A Midsummer Night's Dream, Dickens, David Connerfield, Part I of Collection of Shorter Poems

1927 Intensive work—Shakespeare, Macbeth, Tennyson, The Lotus Eaters, Ulysses, Arnold, Sohrab and Rustum, Browning, Love Among the Runs, Byron, The Prisoner of Chillon Extensive work—Shakespeare, As You Like It, Scott, Kenilworth, Part III of Collection of Shorter Poems

1928 Intensive work—Shakespeare, Henry V. Tennyson, Morte d'Arthur, The Brook, Browning, Andrea del Sarto, Wordsworth, Michael, Arnold, Rugby Chapel Extensive work—Shakespeare, Twelfth Night, Scott, Quentin Durward, Part IV of Collection of Shorter Poems

Passages for Memorization

1925

Shakespeare, The Merchant of Venice

Act I, Sc I, II 79-99 I et me play their brothers fools
Act II. Sc 9. II 36-49 Who chooseth me to be new varnished

Act IV, Sc 1, ll 184-205 The quality of mercy the deeds of mercy

Act V, Sc 1, 11 54-65 How sweet the moonlight cannot hear it

Act V, Sc 1, Il 102-108 The crow doth sing true proportion

Collection of Shorter Poems-Part I

Shakespeare, Sonnet xxxv, Milton, On ha Blindness, Woodswotth, London, 1802, Bianco White, To Night, Tennyson, "Of old sat Freedom", "Home they brought", Rossett, Sudden Light, Hardy, The Division, Davies, The Green Tent, Campbell, How One Winter Came in the Lake Region

1926

Shakespeare, Julius Caesar

Act I, Sc 1, ll 40-60 O you hard hearts on this ingratitude
Act III, Sc 1, ll 148-163 O mighty Caesar spirits of this age
Act III. Sc 2, ll 173-196 If you have tears flourished over us

Act IV, Sc 2, Il 19-27 Thou hast described in the trial Act V, Sc 5, Il 68-75 This was the noblest was a man

Collection of Shorter Poems-Part II

Byron, "There was a sound of revelry" (II 1-45), Tennyson, "You ask me why", St. Agnes' Eve, Hardy, "When I set out for Lyonesse", Lang, Good-bye, Yeats, The Lake Isle of Innisfree, De la Mare, The Scribe, Carman, An April Morning

1927

Shakespeare, Macbeth

Act I, Sc 5, 11 16-31 Glams thou art crowned withal

Act III, Sc 2, ll 4- 26 Nought's had him further Act III, Sc 2, ll 45- 56 Be innocent go with me

Act V, Sc 3, Il 22-28 I have lived dare not

Act V, Sc 3, Il 39- 45 Cure her the heart

Act V, Sc 5, II 16-28 The Queen signifying nothing

Shakespeare, As You Like It

Act II, Sc 1, Il 1- 18 Now my co-mates change it Act II, Sc 5. The Sones

Act II, Sc 5, The Songs
Act II, Sc 7, 11 139-166 All the world's sans everything

Act II, Sc 7, II 174-190 The Songs

Collection of Shorter Poems-Part III "It is not to be thought of", "A weary lot is thine", "The splendour falls", Far-Far-Away

1928

Shakespeare, Henry V

Act I, Sc 1, II 1- 18 O for a muse imaginary forces work
Act III, Sc 1, II 1- 34 Once more into the breach and St George
Act IV, Sc 3, II 40- 67 This day is called St Crispian's Day

Shakespeare, Twelfth Night

Act I, Sc I, Il I-15 If music be is high fantastical Act II, Sc 4, Il 113-121 A blank, my lord little in our love

Collection of Shorter Poems—Part IV The Tiger, "You ask me why", St Agnes' Eve, When I set out for Lyonesse, The Lake Isle of Innisfree, The Scribe

*FRENCH

The prescription of work in grammar, the translation of English into French and sight translation, is the same for honours as for pass, but the examination will be of a more advanced character. The continuous passages of English for translation into French will be based on the prescribed texts.

The following are the prescribed texts -

- 1925 Mérimée, Colomba (Siepmann's Advanced French Series, Macmillan), Augrer and Sandeau, Le Gendre de Monsieur Poirier (Siepmann's French Series for Rapid Reading, Macmillan)
- 1926 Anatole France, Le Livre de mon ami (Holt & Co), Erchmann-Chatrian, Le Juif polonais.
 - 1927 Bordeaux, La Maison, Labiche et Martin, La Poudre au c yeux

Two papers will be set (1) Prescribed texts and translation at sight, questions on grammar, (2) the translation of English into French.

*GERMAN

The prescription of work in grammar, the translation of English into German and sight translation, is the same for honours as for pass, but the examination will be of a more advanced character. The continuous passages of English for translation into German will be based on the prescribed texts.

The following are the prescribed texts -

1925 Rosegger, Der Lex von Gutenhag, Moser, Ultimo, Collmann, Easy German Poetry, pp 1-52 (Ginn & Co.)

1926 Baumbach, Der Schwiegersohn, Rosen, Ein Knopf and Muller, Im Wartesalon erster Klasse, from "Four German Comcdies", (Ginn & Co), Collmann, Easy German Poetry, pp. 52-107 (Ginn & Co)

1927 Rosegger, Der Lex von Gutenhag, Freytag, Die Journalisten, Collmann, Easy German Poetry, pp 1-52 (Ginn & Co.)

1928 The same as 1926

Two papers will be set (1) Prescribed texts and translation at sight, questions on grammar, (2) the translation of English into German

^{*}When the edition is not specified any smabridged edition may be used.

SPANISH

The prescription of work in grammar, the translation of English into Spanish, and sight translation, is the same for honours as for pass, but the examination will be of a more advanced character

The following are the prescribed texts -

1925, 1926, 1927 Ramos Carnon y Aza, Zaragueta (Silver, Burdett & Co.), Azorín, Las Confesiones (Heath & Co.)

1928 Pardo Bazán, El tesoro de Gastón (Holt & Co), Ramos Carrión y Aza, Zaragueta (Silver, Burdett & Co)

Two papers will be set (1) Prescribed text and translation at sight, questions on grammar, (2) the translation of English into Spanish and composition

ITALIAN

The prescription of work in grammar, the translation of English into Italian, and sight translation, is the same for honours as for pass, but the examination will be of a more advanced character

The following are the prescribed texts -

1925, 1926, 1927, 1928 Wilkins and Altrocchi, Italian Short Stories (Heath and Co), Fogazzaro, Pereat Rochus (Heath and Co)

Two papers will be set (1) Prescribed text and translation at sight, (2) questions on grammar and translation of sentences illustrating the grammar

HISTORY

Modern World History from 1789 to 1920 The geography relating to the history prescribed One examination paper

Note—The following sections of the course given below are obligatory 1, 2, 3, 7, 8, and 12 In addition candidates must take either sections 4 and 6 or section 5, and either sections 9 and 10 or section 11.

- 1 A brief survey of conditions at the beginning of the period (a) political, (b) social and economic, (c) educational, (d) religious
 - 2 The French Revolution, 1789-1799, and its influence on other peoples
 - 3 The Napoleonic Era, 1799-1815, and its world results
 - 4 The period of reaction after 1815
- $\,\,$ The Industrial Revolution from its beginnings in the first half of the eighteenth century
- 6 The growth of democracy to 1850 on the continent of Europe, in Great Britain, in Canada

- 7 The development of Nationalism after 1850 France, Italy, Germany, Russia, the Balkan States
- 8 The growth of great empires British Empire, German Empire, Russian Empire, Flance, Japan, the United States
- 9 International relations Chief alliances of European powers, the Monroe doctrine
 - 10 The Great War causes, great events, results
- 11 Survey of the progress of civilization during the period political, social and economic, educational (including literature and art), scientific, religious.
- 12 Development of government in Upper and Lower Canada, 1789-1867, and in the Dominion of Canada, 1867-1920, is outlined in the Ontailo High School History of Canada

BOOKS OF REFERENCE

The following books will be found useful for supplementary reading on the topics of the course and should be placed in every High School library Robinson and Beard, A History of Europe Our Own Tunes, Gina & Co. Hazen, Modern European Hustory, Holt, Liapse, Political and Scientification of the Control of t

MATHEMATICS

ALCERIA — Elementary rules, factoring, highest common measure, lowest common multiple, fractions, simple equations of one, two and three unknown quantities, extraction of roots, more advanced factoring, simple gaples, simple ratios and proportion, indices and sixed, quadratics of each of the common com

One examination paper

TRIGONOMETRY—The trigonometrical ratios with their relations to one another, sines, etc., of the sum and difference of angles, with deduced formulas, use of logarithms, solution of triangles, expression for the area of triangles, inverse functions, radii of circumscribed, inscribed and escribed circles.

One examination paper

PROBLEMS One paper (For certain scholarship candidates only)

 $\ensuremath{\mathtt{Geometry}}$ A candidate must take section C and either section A or section B

A -- Synthetic Geometry

Exercises on the course prescribed for the pass examination, with special reference to the following topics loci, maxima and minima, the system of inscribed, escribed and circumscribed circles of a triangle, with metrical relations, radical axis

The following additional propositions in Synthetic Geometry, with exercises thereon —

To divide a given straight line internally and externally in medial section

To describe a square that shall be equal to a given rectilineal figure

To describe an isoceles triangle having each of the angles at the base double of the third angle

To inscribe a regular pentagon in a given circle

The squares on two sides of a triangle are together equal to twice the square on half the third side and twice the square on the median to that side

If ABC be a triangle, and A be joined to a point P of the base such that BP PC = m - n, then $nAB^2 + mAC^2 = (m+n) AP^2 + nBP^2 + mPC^2$

In a right-angled triangle the rectilineal figure described on the hypotenuse is equal to the sum of the similar and similarly described figures on the two other sides

If the vertical angle of a triangle be bisected by a straight line which also cuts the base, the rectangle contained by the sides of the triangle is equal to the rectangle contained by the segments of the base, together with the square on the straight line which bisects the angle

If from the vertical angle of a triangle a straight line be drawn perpendicular to the base, the rectangle contained by the sides of the triangle is equal to the rectangle contained by the perpendicular and the diameter of the circle described about the triangle

The rectangle contained by the diagonals of a quadrilateral inscribed in a circle is equal to the sum of the two rectangles contained by its opposite sides

Two similar polygons may be so placed that the lines joining corresponding points are concurrent.

If a straight line meet the sides BC, CA, AB, of a triangle ABC in D, E, F, respectively, then BD CE AF = DC EA FB, and conversely (Menelaus' Theorem)

If straight lines through the angular points A, B, C of a triangle are concurrent, and intersect the opposite sides in D, E, F, respectively, then BD CE AF=DC EA FB, and conversely (Ceva's Theorem)

If a point A lie on the polar of a point B with respect to a circle, then B lies on polar of A

lies on polar of A

Any straight line which passes through a fixed point is cut harmonically
by the point, any circle, and the polar of the point with respect to the

In a complete quadrulateral each diagonal is divided harmonically by the two other diagonals, and at the angular points through which it passes

B —ELEMENTARY SOLID GEOMETRY

circle

Definitions General description of figures in three dimensions

The following propositions, with exercises thereon

A plane is determined by (a) a straight line and point not on it, (b) two intersecting straight lines, (c) two parallel straight lines

Two intersecting planes cut one another in a straight line and in no other point

If two straight lines are parallel, any plane intersecting one of them intersects the other

intersects the other

If two planes are parallel, any straight line intersecting one of them
intersects the other

If a straight line is perpendicular to two intersecting straight lines at their point of intersection, it is perpendicular to every straight line in their plane through their point of intersection

Conversely, all straight lines intersecting a given straight line at a given point and perpendicular to it lie in a plane

If one of two parallel straight lines is perpendicular to a plane, the other

Conversely, if two straight lines are perpendicular to the same plane, they are parallel

If a straight line be at right angles to a plane, any plane through the line is perpendicular to the plane

To draw a perpendicular to a given plane from a given point

One, and only one, straight line can be drawn through a given point and perpendicular to a given plane

The perpendicular from a given point to a plane is the shortest distance from the point to the plane

If two straight lines are parallel to the same straight line they are parallel to each other

If two intersecting straight lines are parallel respectively to two other intersecting straight lines the contained angles are equal

If two planes have a common perpendicular they are parallel, and conversely

If two intersecting straight lines are respectively parallel to two other intersecting straight lines, the plane of the first two is parallel to the plane of the account two

Straight lines which are cut by three or more parallel planes are cut proportionally

To draw a perpendicular to two given straight lines not in the same

plane
There is only one common perpendicular to two straight lines not in the same plane

In a tetrahedron the sum of any two angles at a vertex is greater than the third, and the sum of three angles is less than three right angles

the third, and the sum of three angles is less than three right angles.

In a polyhedron the sum of the number of faces and the number of corners or vertices is two greater than the number of edges.

There are not more than five regular polyhedra

There are not more than nive regular polyneura

The four diagonals of a parallelopiped are concurrent and bisect one another

The four straight lines which join vertices of a tetrahedron to the centrords of the opposite faces meet in a point which divides them in the ratio 31, and the three lines which join the middle points of opposite edges meet in the same point and are bisected there.

Any plane section of a pryamid taken parallel to the base is similar to

the base, and the area of such a section varies as the square of its distance from the vertex

The volumes of two pyramids of equal heights and equal base areas are

One sphere and only one can pass through four points not in the same

Mensuration of volumes, surface areas, linear measurements in the following prism, pyramid, cylinder, cone, frustum of cone, pyramid, or sphere, zone of a sphere

C-ELEMENTARY ANALYTICAL GEOMETRY

Axes of co-ordinates Position of a point in plane of reference

Transformation of co-ordinates,—origin changed, or axes (rectangular) turned through a given angle $+2 A = x_1 (y_1 - y_1) + y_2 + y_3 + y_4 + y_5 + y_5 + y_6 +$

Co-ordinates of point dividing line joining $P_1(x_i, y_i)$ and $P_2(x_i, y_i)$ in atio m are $x = \frac{m x_2 + n x_1}{m + n}, y = \frac{m y_1 + n y_1}{m + n}$

 $(P_1 P_2)^s = (x_1 - x_2)^s + (y_1 - y_2)^s$ Equations of straight lines

 $\frac{x - x_1}{x_1 - x_2} = \frac{y - x_2}{y_1 - y_2}$ $\frac{x}{a} + \frac{y}{b} = 1.$

 $\frac{x_1 - x_2}{a} + \frac{y_1 - y_2}{b}$ Line defined by two points through which it passes.

 $cos \theta sin \theta$ y = mx + b y = m(x-a) x cos a+y sin a = p

Line defined by one point through which it passes and by its direction.

General equation of 1st degree, Ax + By + C = 0, represents a straight line Any line through (x_1, y_1) is $A(v-x_1) + B(y-y_1) = 0$ If θ be angle between Ax + By + C = 0 and A'x + B'y + C' = 0, the

$$\tan \theta = \frac{A'B - AB'}{AA' + BB'}$$
Condition of | rity, $AA' + BB' = 0$

Condition of $\| \operatorname{ism}_{A'} = \frac{B}{B'}$

Distance from (a,b) to Ax + By + C = 0, in direction whose direction cosines are (l, m) is $= \frac{Aa + Bb + C}{Al + Bee}$

distance from
$$(a, b)$$
 on $Ax + By + C = 0$

$$\pm \frac{Aa + Bb + C}{\sqrt{A^2 + B^2}}$$

THE CIRCLE-

Equations in forms

$$x^{2} + y^{3} = r^{2}$$

$$(x - a)^{2} + (y - b)^{2} = r^{3}$$

$$x^{3} + y^{3} - 2rx = 0$$

General equation $x^2 + y^2 + 2Ax + 2By + C = 0$. or $(x + A)^2 + (y + B)^2 = A^2 + B^2 - C$.

represents a circle with centre (-A, -B) and radius $\sqrt{A^2 + B^2} = C$

Tangent at (x', y') to $x^2 + y^2 = r^2$, is $xx' + yy' = r^2$

Normal is $\frac{x}{x'} = \frac{y}{y'}$

Tangent in form $y = mx \pm r\sqrt{1 + m^2}$

Pole being (x', y'), polar is $xx' + yy' = r^2$ If pole move along a line, polar turns about pole of that line

Square of tangent from (x', y') to $x^2 + y^3 + 2Ax + 2By + C = 0$ $18x'^2 + y'^2 + 2Ax' + 2By' + C$

Radical axis of $x^3 + y^3 + 2Ax + 2By + C = 0$ $x^2 + y^2 + 2A'x + 2B'y + C' = 0$

Easy exercises on the preceding propositions One examination paper

PHYSICS

A course defined as follows, the topics to be presented experimentally with mathematical applications simple and direct in character

MECHANICS OF SOLIDS,-Metric and English units of length Use o vernier calipers, screw-gauge, in measurement of wires, cylinders, spheres plates, etc

Unit of time

Motion velocity, uniform and variable, average velocity, velocity at a noint

Newton's first law of motion, force, mertia, and mass, metric and English units of mass

Acceleration, measurement of uniform acceleration, acceleration due to gravity, value of g

Momentum, Newton's second law, measurement of force, metric and English absolute and gravitational units of force

Newton's third law, conservation of momentum, centripetal and centrifugal force with illustrations, centrifuge, cream separator, form of earth, etc

Composition and resolution of forces, parallelogram of forces, triangle of forces, moments, couples, centre of gravity

Friction laws of friction, co-effic ent of friction

Gravitation Newton's laws of gravitation, Cavendish's experiment Work measurement of work in metric and English absolute and gravitational units, energy, measurement of energy, kinetic and potential energy, conservation of energy

Power measurement of power, horse power, the watt

Machines, mechanical advantage, lever, wheel and axle, pulley, inclined plane, screw, wedge, simple combinations of the foregoing

MECHANICS OF FLUIDS —Pressure pressure at a point, Pascal's law pressure due to gravity, equilibrium of fluids at rest, Archimedes' principle, buoyancy, lydraulic pressure, specific gravity, determination of specific gravity of solids and liquids

Atmospheric pressure barometers, weight of air, pressure due to molecular motion, lift and force pumps, siphon, the use of compressed air, airbrakes, air tools

Velocity due to pressure Torricelli's theorem, pressure in a moving column of fluid varies with the velocity, application to explain the principle of the atomizer, the Bunsen burner, the Bunsen filter pump, forced draught, the curved flight of a ball

Surface tension surface force, surface energy; capillarity, practical applications

Transformations of Energy — Mechanical equivalent of heat, measured mechanically and electrically, measurement of electrical energy, the kilowatt hour

CHEMISTRY

Chemistry of Pass Matriculation reviewed and continued

Reversible reactions and chemical equilibrium of , ice-water, watersteam, bluestone-anhydrous copper sulphate and water, limestonequick lime and carbon dioxide, ferric chloride and ammonium sulphocyanate=ferric sulphocyanate and ammonium chloride (in solution), assist in equilibrium with saturated solution, et: Conditions which effect equilibrium Rate of reaction and conditions that effect it (including catalysis), σg , the action of a dilute on solution of potassium permanganate, oxalic acid, in presence of sulphuric acid, the souring of milk, etc.

A study of the following elements and their most characteristic compounds, having regard to Mendeleyfff's deasfection and to their most important economic and industrial applications hydrogen, sodium, potassium, magnesium, ranc, calcium, aliminamin, carbon, lead, introgen, phosphorus, areane, attimosi, voygen, suphru; chlorine, bromne, iodine, rom, conore, side

Qualitative analysis (principal) may be used for studying the properties of the above dements and for inter-illustrations of reversible reactions and chemical equilibrium e_R , a very dilute solution of lead the reactions of give a precepitate of lead chinoride and the same solution may give a precipitate of lead subjided and from this we may draw conclusions as to the selative solubility of these lead compounds, a dilute solution of lead nitrate with sulphure and gives a precipitate of lead sulphate soluble in intra each, etc.

It should be kept in mind that the student is not learning analysis but is using the scheme for qualitative analysis to provide illustrations of chemical equilibrium and to illustrate the properties of the compounds, see, insolubility, etc.

Organe chemistry, alcohola, acids and esters (fais), methyl alcohol, oststhyl alcohol, glycerne, acite acid, steare acid, ethyl acetate, fallola lad Soap making Carbohydrates glucose, cane sugar, starch, cellulose Hydrolysis of Starch Proteins Berroleum and its commercial product Fractional distillation. These organic compounds should be treafed from the descriptive pount of view and five formulas abound be used

NOTE—It is suggested that the topics under "Organic Chemistry" be not treated more exhaustively than they are in such text-books as Alexander Smith's Intermediate Chemistry, Macpherson and Henderson's First Course in Chemistry

BIOLOGY

Practical study of the external form of all types, and the dissection or the study of prepared specimens (or models), as specified below Observational drawings are essential

Mode of life and life history of the various types Reasons for including these types in their respective groups

ARTIMOPORA—Practical study of the external features of the crayskin, including segmentation and appendages, mode of loomedion and respiration. Description, life-instory and slutton to man of the following insects May beetle, European corn borer, godfing moth, ten caterpullar, mosquito, honey bee, ichneumon fly Comparison of the external features of the crayskin, granishopper for crickely, multipode and spuder

Study of the principles of classification as illustrated by the Arthropeda Recognition-characters of the following orders of insects Orthoptora, Coleoptera, Odonata, Diotera, Leopdoptera, Hemptera and Hymenoptera

VERMES —Practical study of the external features of the earthworm

Dissection of the earth-worm Study of cross-section of the earth-worm
for arrangement of chief organ systems only

Mode of locomotion and respiration

MOLLUSCA —Practical study of the external features and mode of locomotion and respiration, of the fresh-water claim, comparison in these respects with the snall

PROTOZOA -A practical study of the living amoeba or paramoecium

CHORDATA -

PISCES —Practical study of the external features, chief visceral organs circulation and respiration of some common fish

AMPRIMIA—Practical study of the frog under the following headings of) external features, (b) the shelton, (c) the organs of respiration, circulation, digestion and excretion, (d) the central nervous system, (e) the attachment and action of a muscle of the hind leg Study of a cross-section of the rog for arrangement of organ systems Observation of the external features of the development of a frog or toad Comparison of a frog with a fish as to organs of locomotion, cruciation and respiration

REPTILIA -Practical study of the external features of a snake and a turtle

AVES.,—Practical study of the external features, plumage and skeleton of some common bird Adaptions to flight with special reference to the form, skeleton, and organs of respiration

Chief types of bills and feet

MAMMALIA —Practical study of a (a) chief features of the skeleton, (b) organs of respiration, circulation, digestion and excretion, of a rabbit or a cat

Comparison of the brain of a rabbit (or cat) with that of a bird, and of a frog

Study of mammalian eye from a specimen or from a model

Note —Except in the case of the frog and of the earthworm where dissection is required, prepared specimens or models may be used. The cross-sections of the frog and of the earthworm should be studied with the low power microscape.

BOTANY

EXPRIMENTAL PHYSIOLOGY —Practical studies of absorption (osmosis), plasmolysis, transpiration, photosynthesis, respiration, irritability (eg, heliöfropism), and rate of growth

MORPHOLOGY AND PRINCIOCOT—Structure and general functions of the following plant organs leaf, root, stem, flower, seed, fruit Modification of roots, stems, and leaves for the special functions of storage and support Light relations of leaves Stipules, spines and bud-scales Underground stems, comparison of roots and stems. Pollination and adaptations for cross-pollination. Fertilization, seed dispersal, vegetation reproduction as contrasted with sexual reproduction. Study of typical seeds Classification of fruits. A study by means of sections of the cellular structure of the leaf and of the relative arrangement of the more important tissues and tissue systems of the stem and root of bean and marze, or of any other twored ideotyledon and monocotyledon.

CAYFTOGAMS —The practical study of representatures of the chief subcivusions of the cryptogams spriggyra, a mushroom, a lichen, a liverwort, a moss, a horsetail, a clubmoss, and a fern Distribution and conomic importance of yeasts and bacteria. Microscopic structure of the yeast plant Microscopic observation of a bacterial colony

Recognition, economic importance and control of the following parasitic fungit grain rust, loose smut of oats or corn smut, apple scab and black knot

PEMBROGAMS —The practical study of representative of the seed plants of the locality, including at least one member of each of the following orders: Coniferae, Grammeae, Liliaceae, Ramunculaceae, Cruciferae, Rosaceae, Leguminosae, Sapindaceae, Umbelliferae, Labiatae, Scrophulariaceae, Compositae

Ecology —Relation of the structure of plants to their environment Plant associations, e.g., mesophytes, hydrophytes, xerophytes Characteristics of these classes

CLASSIFICATION —The placing of the types studied in their natural divisions, characteristics of these divisions

Comparison of the ecological with the structural classification





DEGREE OF BACHELOR OF ARTS

I COURSES LEADING TO THE DEGREE

- 1 A candidate for the degree of Bachelor of Arts must take one of the courses prescribed by the University
- 2 The courses for the degree of Bachelor of Arts extend over a period of four academic years
- 3 Unless specially exempted by the Council, every undergraduate proceeding to the degree must be in attendance on lectures at the University and at one of the Colleges throughout the session in all the subjects of his academic year. The Arts Colleges in the University are University College, Victoria College, Writoria College, Writ
- 4 Unless in exceptional cases and by special petition to the Council, a student will not be allowed to register in more than one course
 - 5 The courses leading to the degree of Bachelor of Arts are
 (a) THE PASS COURSE
 - (b) The following Honour Courses

CLASSICS PSYCHOLOGY
GREEK AND HERBEW MATERIALIS

GREEK AND HEBREW MATHEMATICS
ORIENTAL LANGUAGES MATHEMATICS AND PHYSICS

ORIENTAL LANGUAGES (GREEK PHYSICS

OPTION) BIOLOGY
FRENCH GREEK AND LATIN PHYSIOL

FRENCH GREEK AND LATIN
MODERN LANGUAGES
BIOLOGICAL AND MEDICAL SCIENCES
ENGLISH AND HISTORY
CHEMISTRY AND MINERALOGY

MODERN HISTORY
POLITICAL SCIENCE GEOLOGY AND MINERALOGY
PRILOSOPHY
SCIENCE (GENERAL)

PHILOSOPHY (ENGLISH OR HISTORY HOUSEHOLD SCIENCE OPTION) HOUSEHOLD ECONOMICS

ADMISSION TO THE PASS COURSE

6 A candidate for admission to the First Year of the Pass Course must present certificates giving him credit for complete Pass Matriculation 7 A candidate for admission who presents, in addition to complete Pass Matriculation, certificates groung him credit at the Honour Matriculation examination in all or all but one of the subjects of the First Year of the Pass Course may be admitted to the Second Year of that Course, a candidate who lacks credit for one subject will be required to pass the First Year or equivalent examination in that subject before he will be allowed to register in the Third Year. A candidate who has not complete Pass Matriculation standing may be admitted to the Second Year of the Pass Course if he presents certificate a gring him credit at the Honour Matriculation examination in All. the subjects of the First Year. The prescribed fee for such admission to the Second Year is fifteen dollers.

Admission to an Honour Course

8 Every student applying to enter the First Year of an Honour Course must present, in addition to complete Pass Matriculation standing, certificates giving him credit (see Section 18) at the Honour Matriculation or equivalent examination in the fire subjects prescribed below for the Honour Course which he washes to enter

NOTE—The term "addstronal subject" includes any one of English, History, Greek, French, German, Italian, Spanssh, Trigonometry, Physics, Chemistry, Realogy

CLASSICS —Greek, Latin, Mathematics (Algebra and Geometry), together with two additional subjects, one of which should be French or German

GREEK AND HEBRRW —Greek, Latin, Mathematics (Algebra and Geometry), one of English, French, German, together with an additional subject

FRENCH GREEKAND LATIN —Latin, Mathematics (Algebra and Geometry), two of Greek, English, French, together with an additional subject MODERN LANGUAGES—Latin, French, Mathematics (Algebra and Geometry), one of German, Italian, Spanish, together with an

additional subject
ENGLISH AND HISTORY—Latin, Mathematics (Algebra and Geometry),
two of Greek, English, French, German, together with an additional

subject
*MODERN HISTORY
*POLITICAL SCIENCE

Listory, French or German, together with an additional subject

*Philosophy — Latin, English, Mathematics (Algebra and Geometry), one of History, Greek, French, German, Physics, together with an additional subject

*A student may qualify for admission to the Second Year of this course by obtaining complete standing at the First Year examination in the Pass Course with an average of sixty-six per cent in at least four subjects Philosophy (English or History Option) -Latin, Mathematics (Algebra and Geometry), one of History, English, Physics, one of Greek, French, German, together with an additional subject

PSYCHOLOGY -- Latin, Mathematics (Algebra and Geometry, Tilgonometry), French or German, and one of Physics, Biology, Chemistry

MATHEMATICS

Latin, Mathematics (Algebra and Geo-MATHEMATICS AND PHYSICS metry, Trigonometry), Physics, and French or German

Priverce Brotogy

PHYSIOLOGY AND BIOCHEMISTRY BIOLOGICAL AND MEDICAL SCIENCES CHEMISTRY AND MINERALOGY CHEMISTRY

Latin, Mathematics (Algebra and Geometry, Trigonometry). French or German. and one of Physics, Biology, Chemistry

GROLOGY AND MINERALOGY SCIENCE (GENERAL)

HOUSEHOI D SCIENCE

HOUSEHOLD ECONOMICS -Latin, Mathematics (Algebra and Geometry), two of English, French or German, Physics, Biology, Chemistry, together with an additional subject, the candidate is recommended to take French or German and a science

9 A student may apply for admission to the First Year of an Honour Course if he has obtained complete standing in the Pass Course of the First Year, and has met the entrance requirements of the Honour Course as laid down in the above Section, at either the First Year or Honour Matriculation Examination The student's attention is drawn to the fact that standing in General Science of the First Year will not be accepted as the equivalent of credit at Honour Matriculation in a Science

II MATRICULATION

- 10 The subjects of Pass Matriculation are Latin, English, History, Mathematics and any two of the following-Greek, French, German, Spanish or Italian, Experimental Science or Agriculture Two papers are set in each subject
- 11 A candidate for Pass Matriculation will be allowed to write on one or more papers at a time in any order and on obtaining at least fifty per cent of the marks assigned to any paper will be given credit for having passed in such paper
- 12 The subjects of Honour Matriculation are. Greek, Latin, English, French, German, Spanish, Italian, History, Mathematics (Algebra, Geometry, Trigonometry), Physics, Chemistry, Biology (Botany, Zoology).

- 13 A candidate for Honour Matriculation will be allowed to write on one or more papers at a time in any order, and will be given credit for a subject on obtaining at least fifty per cent in each paper of that subject, not necessarily at one examination
- 14 Certificates of examinations recognized as equivalent in value to the Ontario Matriculation, Pass or Honour, may be accepted as far as they meet the Ontario requirements in subjects and percentages. A candidate applying for admission on such certificates must submit an official statement of the marks upon which these certificates were awarded.
- 15 The regulations respecting Matriculation together with a schedule of examinations which may be accepted as equivalent are to be found in the Curriculum for Matriculation.

III PROCEDURE FOR ADMISSION

(a) GENERAL CONDITIONS

- 16 A candidate for admission should apply to the Registrar of the University for a form of application for admission, he is required to fill out this form and return it to the Registrar not later than September 10th together with the following (a) all Pass and Honour Matriculation or equivalent certificates which he may hold, see Section 14, (b) any other evidence of ability to take the work proposed, (c) certificate of good cheracter.
- 17 Each application for admission will be considered by the Committee on Admissions, and the candidate will be notified of their decision at as early a date as possible A Candidate is strongly recommended to await the decision of the Committee before leaving for Toronto

(b) ENTRANCE AT THE FIRST YEAR

- 18 Applications for admission to the First Year will be considered from the following classes of students
- (a) The student who has obtained complete credit for the subjects of Pass and Honour Matriculation required for admission to the course which he desires to enter See Sections 6, 8 and 9 Such a student when admitted becomes an UNDERGRADUATE in the Faculty of Arts
- (b) The student who presents other than Ontano certificates accepted by the University as covering the required subjects of Pass and Honour Matriculation. Such a student when admitted will be on PRODATION and will not be allowed to enter the Second Year until he has passed in mill the examination of the First Year, he will then be granted the standing of an undergraduate in the Faculty of Arts. For a list of equivalent certificates see the Matriculation Curriculum. See Section 33.
- (c) The student who has not obtained complete credit for the subjects of Honour Matriculation required for admission to an Honour Course

Such a student, if admitted, will be ON PROBATION See Sections 33, 34 and 35

NOTE:—Applications will not be considered from students, except those mentioned in Section 18(d), who have not obtained credit for at least the subjects of Pass and Honour Matriculation required for admission to the Pass Course

- (d) The student of mature age who has not obtained complete credit for the required subjects of Pass and Honoir Matriculation Such a student, if admitted, will be on PRODATION and will not be allowed to enter the Second Year until he has complied with all the conditions which the Council of the Faculty of Arts may impose. See Section 3.
- (c) The student who is not proceeding to a degree in Arts, se, no occasional student. The application of such a student will be considered only when recommended by the staff in the department in which he wishes to enroll. Except by special permission of the Council an occasional student must pass the term and final examinations in a subject in which he may be enrolled before he can be allowed to enroll in that subject for the next hicher vear.
- 19 A student applying for admission to the First Year as an undergraduate must have completed the sixteenth year of his age on or before the first of Cotober of the session in which he applies for registration. An occasional student must have completed the nineteenth year of his age on a before the same date.

(c) ENTRANCE AT THE SECOND YEAR

- 20 A candidate for admission who presents, in addition to complete pass Matriculation standing, certificates juring him credit at the Honour Matriculation examination in all or all but one of the subjects of the First Vear of the Jass Course may be admitted to the Second Vear of that Course, a candidate who lacks credit for one subject will be required to pass the First Vear or equivalent examination in that subject before he will be allowed to register in the Third Vear. A candidate who has not complete Pass Matriculation standing may be admitted to the Second Vear of the Pass Course if he presents certificates giving him credit at the Honour Matriculation examination in ALL the subjects of the First Vear. The prescribed fee for such admission to the Second Vear in fifteen delays.
- 21 The only courses open to a student entering on such certificates at the Second Year are the Pass Course, and on conditions to be determined by the Council the Honour Courses in Modern History, Political Science and Philosophy
- 22 A student applying for admission to the Second Year as an undergraduate must have completed the seventeenth year of his age on or before the first of October of the session in which he applies for resistation

(d) Admission Ad Eundem Statum

- 23 An undergraduate of another University may be admitted ad evindem latum on such conditions as the Senate on the recommendation of the louncil of the Faculty may prescribe
- 24 An applicant for admission ad cundem statum must submit with his seition (1) a calendar of his University giving a full statement of the ourses of instruction, (2) an official certificate of character and academic tanding
- 25 Such an applicant may not compete for scholarships at his first xamination if admitted to a standing lower than that held in his on Jaiversity, but, if he obtain standing at this first examination he shall subsequently enjoy all the rights and privileges of an undergraduate of his University.

IV REGISTRATION AND ENROLMENT

- 26 Every student in attendance proceeding to a Bachelor's degree in the Faculty of Arts is required to register in the University and to enrol in University College, or Victoria College, or Trinity College, or St. Michael's College
- 27 Application for registration in the University, whether by mail or in person, should be made at as early a date as possible and not late rules. September 10th, and registration in the University together with enrolment in the College must be completed on or before September 80th 428 See Sections 16 and 17 Neglect of early application will result in dislay and unconvenience to the student.
- 28 Enrolment with the instructors of the University and of the Colleges will begin at 9 am on Saturday, September 27th, and must be completed by the student in person by 5 pm on Tuesday, September 30th, 1924.
- 29 After September 30th no student will be allowed registration for the whole or part of the session 1924-25, without the consent of the Council
- 30 Every petition for registration subsequent to September 30th must be accompanied by a sum of money reckoned at one dollar per diem for each day after September 30th For sufficient cause the whole or part of such a sum may be refunded
- 8.1 A student who has not enrolled in a subject or subjects on or before September 30th, may, at the discretion of the head of the department concerned, be refused admission to the classes or laboratories, until the shall have statisfied the head of the department that he is competed to proceed with the class in order to qualify himself for admission such a student may be recurred to obtain tuttion at his own excesses.

32 Unless special permission is granted by the Council, on the recommendation of his College, a student of the First Year who has failed to obtain standing at the annual evamination sufficient to admit him to the Second Year, will not be allowed to repeat the year

V STUDENTS ON PROBATION

- 33 A student who has been admitted under Section 18 (i) or 18 (c) or submitted to 18 (d) or submitted to probation only, and will be allowed to repeat a year, will be admitted on probation only, and will be allowed to register for the Easter Term, only on the recommendation of his College after consultation with the staff in each of the subjects in which he is enrolled, and with the consent of the Council
- 34 A student on probation admitted to the First Year of an Honour Course must obtain standing at the Pass examination of the First Year in any subject in which his Honour Matriculation credits fall short of the prescribed entrance requirements, before he will be allowed to enter the Second Year.
- 35 A student admitted on probation to an Honour Course of the First Year will not be allowed by the Council to enroll in any subject beyond the requirements of his course except on the recommendation of his College and of the Department in which he is enrolled on probation

VI REGULATIONS RELATING TO STUDENTS IN ATTENDANCE

- 36 No student will be allowed to continue in attendance, whose presence is deemed by the Council of the Faculty to be prejudicial to the interests of the University
- 37 Students proceeding regularly to the degree are required to attend the courses of instruction and the examinations in all subjects prescribed for students of their respective standing, and no student will be permitted to remain in the University who persistently neglects academic work.
- 38 Unless special permission is granted by the Council, a student who, at the close of two sessions in the University, has failed to secure standing in his year, will not be permitted registration in the Faculty of Arts
- 39 The Students Administrative Council has been entrusted by the Caput with supervision of the conduct of the students, and has power, subject to the approval of the Caput, to deal with violations of the regulations governing conduct
- 40 Any student who may be convicted of having taken part in a parade or procession through the city which has not been authorized by the police authorities after application by the Executive of the Students Administrative Council, will be severely disculpant.

- 41 All interference on the part of any student with the personal liberty of another by arresting him, or summoning him to appear before any inauthorized tribunal of students, or otherwise subjecting him to any indignity or personal violence, is forbidden by the Caput.
- 42 A student who is under suspension, or who has been expelled from a College or from the University, will not be admitted to the University buildings or grounds
- 43 The constitution of every University society or association of students in the Faculty of Arts and all amendments to any such constitution must be submitted for approval to the Capit. All programmes of such societies or associations must, before publication, receive the anaction of the Capit through the President Permission to invoke any person not a member of the faculty of the University to preside at or address a meeting of any society or association must be similarly obtained address a meeting of any society or association must be similarly obtained
- 44 The name of the University is not to be used in connection with a publication of any kind without the permission of the Caput

VII FEES

For the schedule of fees see page 163

VIII PHYSICAL TRAINING

- 45 By order of the Board of Governors each male student proceeding to a degree must take Physical Training in the first and second years of his attendance. He must first undergo a medical examination by the Director of the University Health Service in order to determine the character of this training. Students of all years who wash to take part in any form of athletics or physical exercise, must first undergo a medical examination by the Director.
- 40 Each woman student proceeding to a Bachelor's degree and enrolled in University College shall be required, during the first year of her attendance, to take Physical Training following upon an examination by the Medical Advisor for Women 1 We women students registered in Victora, Trinity and St Michael's Colleges are under the direction of their respective Colleges with respect to Physical Training
- 47 The student who has failed to complete satisfactorily the course in Physical Training prescribed for the First Year, will not be permitted to register in the Third Year, and the student who has failed to complete satisfactorily the course in Physical Training prescribed for the Second Year, will not be permitted to register in the Fourth Year
- 48 The student who has neglected to complete satisfactorily the course in Physical Training of the First or Second Year and who, under Section 47, must take this work during the Second or Third Year respectively of his course, will be required to pay a supplemental fee of \$10 in addition to the prescribed Physical Training fee

IX EQUIVALENT EXAMINATIONS—FIRST YEAR

49 Certificates of having passed the whole or a part of the following examinations may be accepted for tasts for Pass Course subjects but not for the individual papers of a subject at the examination of the First Year or Senior Mattroulation Before exemption is granted on any of the certificates mentioned in this Section, a candidate may be required to satisfy the authorities of the University, and of his College, as to the equivalence of the examinations for which exemption is sought. See section 78 and fortnotes.

PROVINCE OF ONTARIO

The Honour Matriculation Examination and the Upper School Examina-

PROVINCE OF NOVA SCOTIA Grade XII Examination

PROVINCE OF MANITOBA

Grade XII Examination

PROVINCE OF BRITISH COLUMBIA

Senior Matriculation Examination

PROVINCE OF ALBERTA

Grade XII Examination

PROVINCE OF SASKATCHEWAN

First Class Diploma or Senior Matriculation

NEWFOUNDLAND

Associate in Arts (Senior) Examination

GREAT BRITAIN

The local Examinations for Senior students, conducted by the Universities of Oxford and Cambridge $\,$

- 50 A candidate submitting any of the certificates mentioned in the preceding section must submit an official statement of the marks on which the certificate was obtained
- 51 In view of the recent change in the standard for passing in the Pass Course only those certificates which meet these conditions as to subjects and percentages will be accepted. Exemption will not be given in part of a subject of the First Year, e.g. credit in Ceometry alone will not be accepted, a student must have passed in both Algebra and Geometry to be given exemption in Mathematics.
- $52\,$ The Council will consider applications for the recognition of certificates other than those mentioned
- 53 A candidate presenting pro lanto certificates is eligible for scholar-ships and for ranking in Honour Courses, but he is not eligible for grading in the Pass Course if he claims exemption in more than two subjects.

X COURSE FOR DEGREE-TEACHERS CLASSES

- 54 In order to assist teachers and others who desire to proceed to the degree of Bachelor of Arts, provision has been made for their instruction by I, Teachers' Classes during the regular session, 2, (a) supervision during the academic year, and (b) the Summer Session
- $55\,$ The Pass Course according to the following scheme will be the basis of instruction
- First Year English, Latin, French, General Science, Mathematics (Algebra, Geometry and Trigonometry) and one subject from Group 6, page 160
- Second Year English or Mathematics I, French, Science, History, Economics or Psychology
- Third Year English, French or Mathematics I, Science, History, Economics or Ethics
- Fourth Year English, French or Mathematics I, Science, History,
 Economics or History of Philosophy
- 56 Persons desiring to enter this course are required to present Honour Matriculation or equivalent certificates covering all or all but one of the subjects of the First Year

 The prescribed fee for entrance at the Second Year is \$1.5
- 67 The subjects of the Second Year are divided into two groups, which are given in alternate years. The subjects for 1924-25 are History, Psychology or Political Economy, and Science.
- 58 The subjects of the Third Year are divided into two groups, which will be given in alternate years

 The subjects for 1924-25 are History, French and Science
- 59 The subjects of the Fourth Year for 1924-25 are History, French, and Science
- 60 These courses are open to person a cutally engaged in teaching and to such others as have been approved by the Council In all cases application for admission must be made to the Registrar of the University through the Director of University Estession. Only under exceptional circumstances will a candidate be allowed to attend classes in more than three subjects during one session of the Teachers' Course.
- 61 A student proceeding to the degree shall on or before October 1st of each year submit a statement of the work which he proposes to take (a) in the Teachers' Classes or (b) under supervision preparatory to the Summer Session, and on or before May 15th of each year, a similar statement of the work he deserse to take during the Summer Session.
- 62 A student will receive credit for each subject in which he secures fifty per cent

- 63 A student will not receive credit for a subject of a higher year until he has passed the examination of the lower year in the same subject He may, however, be a candidate for examination in the work of two successive years in the same subject
- 64 A student who has not been granted complete First Year standing may not enter upon the work of the Third Year, nor a student who has not been granted complete Second Year standing, upon the work of the Fourth Year
- 65 Pursuant to Section 124 of the Revised Statutes of Ontario, 1913, in the case of a candidate for the degree of Bachelor of Arts, registered in the Teachers' Course, enrolment in one of the Arts Colleges shall not be necessary
- 60 Instruction during the regular session will be given as far as possible to meet the convenience of the members of the classes residing in Toronto and its immediate vicinity. Instruction during the regular session is also provided, as fin as possible, in other centres in the Province where a sufficient number of teachers, or others employed during the day, may be enrolled.
- 07 The Summer Session is held during July and a part of August, and is open (a) to persons engaged in teaching, (b) to such others as have been approved by the Council of the Faculty of Arts, and (c) to regulai students who have fauled to receive credit in one or at most its outplets of the Pass Course, provided always that instruction in such subjects has been arranged for at that Summer Scission
- 68 The work of the Second, Third, and Fourth Years of the Teachers' Course may be covered in five years and will involve (a) attendance on Teachers' Classes during four regular sessions or (b) attendance for four Summer Sessions and supervision during four regular sessions
- 69 Instead of completing his course under this plan a candidate proceeding to the degree is advised to attend the regular courses of instruction in the Fourth Year, in which case the fourth Summer Session is not compulsory. Students are advised to acquaint themselves with the regulations of the Department of Education respecting High School Assistant's certificates. See page 100
- 70 A candidate will not be allowed to present himself for examination in any subject until he has attended one Summer Session and has had supervision of his work during one academic year, or until he has attended Teachers' Classes in that subject during one regular session or until he accompleted the necessary mammum of attendance. See Section 68
- 71 Supervision of work should precede the Summer Session, but as such supervision may follow class instruction, assistance in the work of either group of the Second Year or of the Third Year will be provided.

XI CONDITIONS FOR ACADEMIC STANDING

CREDIT IN PASS SUBJECTS

- 72 To receive credit in a Pass Subject, a candidate must obtain at least fifty per cent of the examination marks, as well as fifty per cent of the aggregate of the term and examination marks in that subject, but where has at one examination obtained an average of sixty per cent of all the marks assigned to the Pass subjects of his annual examination, foreign marks assigned to the Pass subjects of his annual examination, foreign at most or at most two subjects in less of the fifty per cent required above
- 73 At supplemental examinations fifty per cent in each subject will be required
- 74 In the First and Second Years a candidate who has failed to receive credit in one of a group of optional subjects may with the approval of the Council present himself at the supplemental examinations in any other of the alternative subjects in which term work is an integral part of the subject. In such a subjection, however, the candidate must, unless exempted by the Council, comply with all the conditions respecting term work, s.e., there can be no transfer of term marks from the subject originally chosen to that substitution.
- 75 A successful candidate in a subject is graided as "A" or "B' or "C" or "Below the Line (B.L)" according to the percentage obtained in the subject. For grade "A", a candidate must obtain at least seventy-five per cent, for grade "B", at least sixty-say even cent, for grade "C", at least fifty per cent of the marks assigned to a subject, provided he has obtained at least fifty per cent of the examination marks in the subject. For grade "B L" he must obtain at least forty per cent of the marks assigned to a subject when the subject is a subject when the subject is subject.

STANDING IN THE PASS COURSE

- 76 A candidate will be granted standing at an annual examination, provided he obtains credit under Section 72, in at least four of the subjects proper to his year. At the examination of the First Year, however, a candidate who has "exemption in two or three subjects must obtain credit under Section 72 m all or all but one of the remaining subjects.
- 77 A candidate who is required to take six subjects in the First Year, and who has failed in two of these subjects, must obtain credit for at least one of them before he can register in the Second Year
- 78 A candidate must obtain complete standing in the First Year before he can register in the Third Year, and he must obtain complete standing in the Second Year before he can register in the Fourth Year
- *Except under special circumstances and on the recommendation of his College, a student of the First Year may not claim exemption in more than three subjects, and so must attend lectures and write examin-

79 A candidate who obtains an average of at least seventy-five per ent of all the marks assigned to the "subjects pioper to ha year will be awarded Grade A standing in his course, a candidate who obtains an average of at least sxty-sax per cent will be awarded Grade B standing, and a candidate who obtains an average of at least sixty-sax per cent will be awarded Grade B standing, and a candidate who obtains an average of at least sixty per cent will be awarded Grade C standing.

CREDIT IN HONOUR SUBJECTS

- 80 A candidate who obtains at least seventy-five per cent of the marks assigned to an Honour subject will be awarded First Class Honours, a candidate who obtains at least sixty-six per cent will be awarded Second Class Honours, a candidate who obtains at least sixty per cent will be awarded Third Class Honours, and a candidate who obtains at least fifty per cent will be raised as "Pleave the Line".
- 81 No candidate will be given credit in an Honour subject where term work is taken into account, unless he obtain at least fifty per cent of the marks at the May examination, as well as fifty per cent of the sggregate of the term work and examination marks in that subject
- 82 A candidate who fails to obtain fifty per cent in an Honour subject, may be granted pass standing therein

STANDING IN HONOUR COURSES

- 83 In order to obtain standing in an Honour Course, a candidate must have obtained (a) at least fifty per cent in each Honour subject of the course as well as (b) credit as defined in Section 72 in all, or all but one of the Pass subjects attached thereto
- 84 A candidate in the Fourth Year who fails to obtain standing in his Honour Course may on recommendation of the examiners be awarded a Pass degree Such a candidate may accept the award or may repeat the year and again compete for Honours
- 85 A candidate, who has fulfilled the conditions of Section 83, will be warded First Class Honours in order of merit provided he has obtained an average of seventy-five per cent of all the marks assigned to the Honour subjects of his course, such a candidate will be awarded Second Class Honours in order of merit provided he has obtained an average of at least suxty-six per cent, such a candidate will be awarded Thud Class Honours provided he has obtained an average of at least saxty per cent, and such a candidate will be ranked as "Below the Line" provided he has obtained a least has sixty per cent;

^{*}In the First Year, students who write on four subjects only or less, will not be graded in the Course

- 80 A candidate in an Honour Course, who has failed in two Pass subjects, will have his standing deferred both in the Honour Course and in the individual subjects thereof until he has passed in both Pass subjects, he will be debarred from registration and earnoment in the higher, year until he has passed in at least one of these and has fulfilled the conditions of Section 90
- 87 A candidate in an Honour Course will not be granted standing in his year if he fail in more than two Pass subjects
- 88 A candidate of the First or Second Year who fails to secure standing in an Honour Course may be transferred to the Pass Course on such conditions as the Course may impose Such a candidate may accept the award or may repeat the year and gazin compete for Honours
- 89 A candidate in an Honour Course of the Third Year who fails to secure standing must repeat the Year, unless he be transferred to the Pass Course by the Council on the special report of the Board of Examiners
- 90 A candidate must obtain complete standing in the First Year before he can register in the Third Year, and he must obtain complete standing in the Second Year before he can register in the Fourth Year

TERM WORK

- 91 In the Pass Course, reports on the term work of every student proceeding to a degree will be made in all the subjects of each year, except in purely lecture courses where the Council, on the recommendation of the teaching staff, may have approved the omission of such reports
- 92 The marks for term work in a subject of the Pass Course will be determined in the manner considered most suitable by the teaching staff in that subject.
- 93 In all subjects of the Pass Course, the ratio of term marks to examination marks will be as fifty to one hundred, except in English where the ratio is as one hundred to one hundred
- 94. When a candidate fails to secure credit in a Pass subject, offset than Engish or a Science of the Scoon, Third and Portif Years, because a deficiency in term marks he must either (1) earn a new term mark under conditions to be determined by the staff in the subject, and repeat examination or (2) make up the deficiency of term marks by obtaining a corresponding increase in his examination marks by
- 95 A candidate whose term work in English is deficient, or who obtains less than fifty per cent of the marks assigned to the term work in any one of the Pass Sciences of the Second, Third and Fourth Years must obtain a satisfactory term mark under conditions to be determined by the staff foonermed, and subsequently must pass a supplemental examination.

- 96 In the Honour Courses, reports in term work will be made wherever uch work is specified as a part of the course
- 97 In an Honour Course, the ratio of term marks to examination marks
 a a subject will be determined by the staff in that subject
- 98 A term examination shall not, unless it be so specified in the alendar, take the place of the Annual Examination in May on any portion of the prescribed work of an Honour Course

CONDITIONS OF ENTRANCE TO THE VARIOUS VEARS

- 99 In order to proceed in an Honour Course in the Second Year a andidate at the examination of the First Year (1) must have fulfilled the onditions of Section 83, (2) must, if his standing is deferred, have fulfilled the conditions of Section 86, and (8) in the case of a student on probation must have fulfilled the conditions of Section 8.
- 100 In order to proceed in an Honour Course in the Third Year, a candidate at the examination of the Second Year (1) must have fulfilled the conditions of Section 83, (2) must have complete First Year standing, and 3) must, if his standing is deferred, have fulfilled the conditions of Section 36.
- 101 In order to proceed in an Honour Course in the Fourth Year, a and date at the examination of the Third Year, (1) must have fulfilled the conditions of Section 83, (2) must have complete Second Year standing, and (3) must, if his standing is deferred, have fulfilled the conditions of Section 88

REPEATING THE YEAR

- 102 A student who has been granted standing in any year of the Pass Course may on conditions to be determined by the Council repeat that year in an Honour Course, and on obtaining standing, may proceed therein See Section 9
- 103 A candidate in any course who for any cause is debarred from the ugher year, may repeat the whole examination in the following May, out is not eligible for scholarships, medals, or prizes

XII EXAMINATIONS

- 104 No candidate will be admitted to examination unless the Head of the College in which he is enrolled certifies that he has complied with all the requirements of that College affecting his admission to such examination.
- 105 A candidate will not be admitted to an examination unless he has paid all the fees due from him A candidate who fails to pay his examination fees on or before March 15th—the last day for receiving fees prior to the May examination—must pay an additional fee of one dollar

- 106 A candidate who fails to send his "application for examination" by the day appointed for receiving such applications must pay an additional fee of one dollar
- 107 No candidate in a course involving practical work in a laboratory will be admitted to examination if the Professor under whom his work is carried on reports that he has neglected his laboratory work or signally failed in the practical examinations
- 108 Representations on the part of candidates with regard to the May examination and applications for consideration on account of schens, domestic affliction, or other causes, must be filed with the Registrate before May 2461 in the case of the June or September examination such applications must be filed with the Registrar before the close of the examination.

THE MAY EXAMINATION

- 109 The May examination is held at the University and is open to candidates of all the Years in the Pass Course and in all the Honour Courses.
- 110 Arrangements will be made, whenever possible, to allow a graduate, who is engaged in teaching in Ontario and who desires to receive credit in subjects not taken during his undergraduate course, to take such examinations in his own locality.
- 111 If the time-table permits, a candidate may present himself for examination in subjects in which he has previously failed to receive credit
- 112 In the case of Fourth Year candidates, where there is a conflict in the time-table, a special supplemental examination may be arranged
- 113 A candidate for examination is required to send an application, according to a printed form, to the Registrar not later than March 15th

THE JUNE EXAMINATION

- 114 The June Evamination, which is held at the University and at such centres as may from time to time be authorized by the Council of the Faculty, is exclusively for candidates for Senior Matriculation in the Pass Course.
- 115 A candidate for this examination is required to send an application, according to a printed form, to the Registrar not later than May 1st
- 110 The presiding examiner or examiners at a local Senior Matriculation examination will be appointed by the Council of the Faculty, and should, if necessary, be competent to conduct an examination in French or German Distration.

117 The expenses in connection with such local Senior Matriculation examination must be met by the candidates at the centre or by the authorities of the school or college on whose application the examination is held.

THE SEPTEMBER SUPPLEMENTAL EXAMINATION

- 118 The September Supplemental examination is held at the University, and is open (1) to candidates who obtained standing at the May or June examination but who failed in one or, in some cases, two Pass subjects, and (2) to candidates in any year of the Pass Course who were prevented by sickness, domestic affliction or other causes beyond their control, from attending the May Examination. The latter candidates must prove to the satisfaction of the Council the sufficiency of the alleged cause of absence not latter than June 15th
 - 119 If feasible this supplemental examination will be held at Winnipeg, Regina, Saskatoon, Edmonton, Calgary and Vancouver The candidate for whom such an examination is held must meet the expenses incurred and should make early application for the privilege
 - 120 A candidate for this examination is required to send an application, according to a printed form, to the Registrar not later than August 1st

GENERAL INFORMATION

THE UNIVERSITY AND THE COLLEGES

In the Faculty of Arts of the University there are four Colleges University College, Victoria College, Trinity College and St Michael's College, and every student registered in the Faculty must enrol in one of these Colleges

Each College gives instruction to its students in the following subjects forek, Latin, Ancient History, Onental Languages, English, German, Frreich, Ethics and "Religious Knowledge Instruction in the remaining subjects of the curricultum—Italian, Spanish, Modern History, Political Economy, Law, Philosophy, Psychology, Mathematics, the Sciences, World History and Military Science—si even by the University.

The annual examinations are conducted by the University, which also grants academic standing upon the results of these examinations and confers the degree upon the successful completion of a prescribed course of study

THE LIBRARY

The University Library is contained in a building of its own, situated on the east side of the campus that lies to the south of the Main Building All students who have paid a library fee to the Burgar of the University are entitled to the privileges of the Library Besides Reading Rooms the building contains Departmental Studies, which may be used as studyrooms by honour students in the various branches in which the Professors hold seminary courses, and private studies, intended for members of the Faculty or advanced students engaged in research work. The Library is opened at 8 45 every morning and remains open until 10 at night during the academic term Books in ordinary use may not be taken out of the building during the daytime, but are lent for the night toward 5 p.m., to be returned the following morning before 10 o'clock Books not in general demand may, on application, be borrowed for a longer period Failure to return a borrowed book at the proper time and other breaches of the regulations are punishable by fine or suspension from the privileges of the Library

ROVAL ONTARIO MUSEUM

ARCHAEOLOGY, GEOLOGY, MINERALOGY, PALAEONTOLOGY, ZOOLOGY

Students of the University in all departments are recommended to avail themselves of the privileges of the Museum, which, although under separate control, is intimately connected with the work of the University

*In University College, courses in Biblical History and Literature, given by the Staff in Oriental Languages, are prescribed in place of Religious Knowledge

The Museum is open on all week days from 10 a m to 5 p m, Sundays 2 to 5 p m. The Admission is free to the public on Tuesday, Thursday, Saturday and Sunday. On other days an admission fee of fifteen cents is charged.

By a resolution of the Board of Trustees all regular students of the University may be admitted free on all days of the week by presenting their card of registration

HART HOUSE

Hart House, the gift of the Massey Foundation, is so called in memory of Mr Hart Massey. In its widest interpretation it seeks to provide for all the activatives in the undergraduate's life apart from the actual work in the lecture room. It affords all the facilities of a first-rate club. In the beauty of its architecture and the various functions which it performs its unique on this continent.

Hart House contains completely equipped club rooms, including common rooms, reading room, music room, fecture room, sketch room, photographic dark rooms, the Great Hall, used as a duning hall, a small chapel, rooms reserved for religious organizations in the University, gymnasia, equish courts, swumming pool, running track, rifle range, billiard room, library and Hart House Thestre

Hart House is open from 8 00 a m to 11 15 p m daily and meals are served in the Great Hall throughout the academic year. Members are entitled to full privileges of all rooms in the building between these hours and the use of the gymnasis, pool, showers and looker rooms until 6 30 p m each 6ay, except Sunday, subject to the regulations of the Athletic Associa-

The Library contains a good selection of books of general interest. These books must not be taken from the room

Sunday Evening Concerts are given by the leading musicians of the city at 9 pm in the Great Hall on certain Sundays during the session and music recitals take place every Friday afternoon in the Music Room

The Sketch Room is equipped with facilities for drawing and painting Weekly drawing classes are given by a qualified instructor and monthly exhibitions of pictures and lectures on Art are arranged

A group of rooms is set apart for the use of the Faculty Umon A dining room and a common room are also reserved for Graduate Members Five guest rooms are available for the use of guests, for periods of a week or less, at a reasonable charce

The Warden is entrusted with the general supervision of the whole bouse in co-operation with the following committees. House, Hall, Library, Music, Billiard, Stetch, Camera and Squash. These committees consist of two senior members, the Warden and a full representation of undergraduates. The undergraduates are elected annually by their fellow students. The Board of Stewards is the Senior Committee and has final control of the House, being directly responsible to the Board of Governors.

It consists of the Warden (es-office chairman) and representatives of the President of the University, the Boad of Governors, the Faculty Union, the Athletic Association, the Graduate Members, the Student Christian Association, the Students' Administrative Council and the undergraduate secretaries of all Standing Committees

Hart House Theatre as an Art Theatre in the University, existing to promote the interests of dramatic art in the widest sense. The theatre is operated by a Board of Syndick, who are responsible to the Governors of the University for its administration. It has always been the policy of the Syndics to encourage the use of the theatre by those recognized dramatic societies within the University which are endeavoiring to do serious work. When it is possible to do so, without interfering with the legitimate activities of the Theatre, the Syndics will be glad to allow its use by other student organization.

All male undergraduates proceeding to a degree in the University are members of Hart House. The annual fee of \$80 covers all fees in connection with Hart House and membership in the Athlete. Association for the academic year (September to May) Membership Cards may be obtained at the Warden's Office on presentation of the Burear's recept for fees paud.

Hart House has no endowment whatsoever and is entirely dependent for its upkeep on the fees received from graduates and undergraduates and from various sources of revenue in the House itself

Other male students in the University, or students in the stillisted or federated institutions receiving instruction in the University, may become members of Hart House on payment of the required fee at the Warden's office. Should the students of any of these institutions elect to join Hart House in a body the \$8.00 fee still obtains but for individual membership the fee is \$10.00.

Graduates are entitled to the full privileges of Hart House on payment of an annual fee of \$10.00 Out-of-town graduates may become members on payment of an annual fee of \$2.00 on payment of an annual fee of \$2.00 or payment.

UNIVERSITY COLLEGE WOMEN'S UNION

79 ST GRORGE STREET

Acting Dean of Women and Head of the Union, Mrs. M. M. Kirkwood, Ph. D.

Secretary, Miss A Macdonald, B A

The Union contains common rooms, library and reading room, dining hall, rest room, and guest rooms for the use of members

MEMBERSHIP—All women undergraduates of University College are members of the Union Graduates may also belong (For membership fee see Fees)
 Meals are by flat rate or ticket
 \$5 00

 Flat rate per week
 \$5 00

 Breakfast (7 tickets)
 2 00

Luncheon (5 tickets) 1 25 Dinner (7 tickets) 3 00

REGISTRATION—All women undergraduates in University College are required to register with the Acting Dean, at the beginning of term

BOARDING HOUSES—Women undergraduates who are away from home and not living in Queen's Hall or a College residence must have their boarding houses approved by the Dean Students who need boarding houses are asked to communicate with her by letter after August lat

VICTORIA COLLEGE WOMEN'S STUDENT UNION

The Women's Student Union, situated in the South end of Annesley Hall, with entrance by the south-west gate, comprises a common 100m, library, committee room, tea room, kitchen and cloak rooms. These serve as common rooms for the women students of the College, and are the centre of their social activities. The rooms are available for committee meetings, discussions groups, Bible study classes, larger meetings, and class receptions. The Women's Undergraduate Association, under the supervision of the Dean's coincil, make the rules and reculations for the use of the rooms.

Cafeteria luncheon is served in the tea room

For women students the fee is \$4 00, to be paid to the fees clerk of the College The money so derived will be applied to the maintenance of the common rooms

For further information please apply to the Dean of Women Students, Victoria College

RESIDENCES

UNIVERSITY OF TORONTO

RESIDENCE FOR MEN

By the generosity of Mr. and Mrs E C Whitney and other frænds, the University can now offer to some hundred and fitty men the peculiar advantages of residential life and excellent accommodation within its own grounds. The Residence, opened in November, 1908, consists of three Houses situated on the north side of Hoskin Avenue, opening upon a quadrangle, the fourth side of which is formed by Devonshire Place They stand about two hundred yards to the north of University College and close to Hart House. The buildings are known as the South, East and North Houses

Each House contains twenty-four single rooms, one single suits, one double room and eleven suitset, a suite comprosing a study and two bedrooms. A large room in each building, with an open hearth, his been set aside as a common room. A lavatory with hot and cold shower baths is provided for every eight men. The buildings are heated by seam and liebted by electricity.

The University supplies the table, chairs, book-case, chiffonier, bed, mattress, pillows, linen and window shades for each room, it is prepared to furnish a desk-lamp for a nominal rental

The rates are \$4.00 per week for a single room or half of a suite, and \$5.00 per week for a single suite. The rental for the Michaelmas Term is payable in advance in one installment, that for the Easter Term is payable in two installments—\$50.00 at the opening of the term and the balance on April 1st. Except under very special crimentances occupants vacating during a term will forficit the rent paid. These charges cover heat, light, house-service, house-service, butsel-suidry, and the use of the telephone. There is no separate during hall connected with the Residence, but board was be obtained at the adiacent funversity During Hall in Hart House.

Applications for rooms must be made in writing to the Secretary of the Residence Committee (address the Registrar's Office) and must be accompanied by a deposit of \$5 00. This deposit will be returned if the application is not granted, but will be forfeited if a room is assigned to the applicant and not taken by him, unless notice of his refusal of the room is received by the Secretary in writing before September 15th returned in full at the end of the College year if the room key is given back and the room and furniture left in a satisfactory condition. The following principles govern the allotment of rooms (1) No student, who as a result of the annual Spring examinations is not assured of being able to proceed to a subsequent year, will be admitted into the Residence Exception to this rule will be made in the case of a student in the Faculty of Medicine who has obtained standing at the May examination, but is debarred by the rules of that Faculty from proceeding to the subsequent year until he has passed his Supplemental examinations. Such a student will be assigned a room provisionally, but cannot occupy it unless he passes his Supplemental examinations in September (ii) The rooms in each house will be distributed among the various Faculties and Years (iii) A limited number of rooms will be reserved for members of the incoming First Year until September 12th (iv) Applications will be considered in order of priority

The University lays down three general rules, designed to prevent hang, the use of intoxicants and gambling. The subudiests in each House shall elect a House Committee, which is entrusted by the University with the making and enforcing of any other needed rules and with the manicanance of order. A member of the Faculty reades in each House to act as friend and adviser to the men in residence.

QUEEN'S HALL, RESIDENCE FOR WOMEN,

NOS 4, 7, 9 QUEEN'S PARK

Superintendent, Miss Louise I Livingstone, B A

Accommodation is provided for 98 students. The rate for room and board is \$9.50 per week and these dues must be paid to the Bursar four weeks in advance.

Applications for rooms must be made in writing and a deposit fee of \$500 must accompany each application. The fee will be returned if the application is not granted or if it is withdrawn before September 15th. It will be returned in full at the end of the college course if the room is left in good condition and there are no breakages.

Applications from First Year Students will be considered first, the other years in order of priority Those undergraduates who have supplemental examinations to write must be successful before they can be enrolled

The students elect a House Committee to assist the superintendent in the maintenance of order and for the general welfare of the household

University College

RESIDENCES FOR WOMEN, 94 AND 85 ST GLORGE STREET

These two restdences, accommodating respectively forty and twentywes students, are connected with the University College Women's Union The rate for rooms is \$4.00 to \$5.00 a week, payable in advance by the month or term to the Bursar Meals are taken at the Union, the rate being \$5.00 a week. Applications for residence are to be made to Mrs. M M Kirkwood, 70 St. George Street, Toronto, and are to be accompanied by a deposit of \$5.00, which will be refunded if the application is withdrawn before September 15th. The deposit will be returned in full at the end of the College course if the room is left in engol continued.

VICTORIA COLLEGE

THE RESIDENCE FOR MEN

There is accommodation in the four houses of the Residence for 123 undergraduaties of Victoria College. Each room is completely furnished as a combined study and bed room. About 15 rooms have fire places. There is a Common Room in each House. The weekly charge to men in Residence for room and meals is from 83 00 to 38 00. The Dining Hall, known as Burwash Hall, is mainly for the use of students of Victoria College, but there is accommodation for a limited number of men from other Colleges and Faculties. Students, other than those in Residence, may buy individual meal tickets, strip of tickets or board at a weekly rate of \$5.25 Applications for rooms and all inquiries should be addressed to the Dean of Residence, Victoria College.

RESIDENCES FOR WOMEN

The women students of Victoria College are housed in four buildings—Annesley Hall, South Hall, the Annex, Oaklawn, accommodating sixty-six, twenty-five, twenty-seven, and twenty-six students respectively The houses are all near the College

Applications for rooms must be accompanied by a deposit see of \$10,00, which will be reimded if the application is withdrawn before September lat. Fees for the year range from \$206 to \$400, according to the location of the room, and are payable half on October lat and half on February let Additional fees are—medical examination \$200, nurse's fee \$1000, use of laundry \$200. These changes are subject to change

For further information kindly write to the Dean of Women Students, Victoria College, Queen's Park, Toronto

TRINITY COLLEGE

Trinity College provides residences for both men and women students. The men reside in Trinity College, in which there is accommodation for ninety students or upwards. The women reads in St. Hilda's College and St. Hilda's Lodge, in which together accommodation for fifty or more is provided.

RESIDENCE FOR MEN

Excellent accommodation for men is to be found in the residence set apart for their use. Several members of the staff are resident in the building. The students' living rooms are so arranged that two students may room together, or a student may have a room to himself, as may be preferred. Details as to fees for room and board, which are maintained at the lowest rate consistent with first class service, will be sent on request. There is a students' common room, gymansium—which is used also for basket-ball and boxing—a hockey rink, tenns courts, a large field for basket-ball and boxing—a hockey rink, tenns courts, a large field for basket-ball and foxing—a hockey rink, tenns courts, a large field for the sent of the college under the charmanship of the sent of the college under the charmanship of the senior student, know as a "Head of College".

Applications for rooms in College are to be made on a printed form provided for this purpose, and are received at any time after Jianuary 1st for the succeeding Michaelmas Term, being subject to withdrawal on written notice up to September 1st Most of the rooms, being furnal on being the partly by the College and partly by the occupants, may be fitted up to suit the state of the individual student Further information, with bank forms of application, will be supplied on request being made to "The Provest, Timuty College. Toronto College."

RESIDENCE FOR WOMEN

Excellent accommodation for the women students of Trinity is provided in St Hilda's and St Hilda's Lodge, both situated within the grounds of Trinity, about three minutes' walk from lecture rooms

The buildings are well planned and the rooms attractive Provision is made for tennis and basket-ball

For information as to fees and academic qualifications for admission, also for blank forms of application, address The Provost, Trinity College, Toronto Applications for residence are referred by him to the Frincipal, St. Hilda's, but no applications for residence can be accepted until the academic qualifications have been submitted to the Provosi

ST MICHAEL'S COLLEGE

For Catholic students St Michael's now offers all the advantages peculiar to a Catholic College

RESIDENCE FOR MEN

There is accommodation for the men at St. Michael's College Parents are most careful of the dangers and temptations to which students, away from home for the first time, are subjected This is a point that St Michael's chiefly considers, and he is in a position almost to guarantee that the student will be as safe in every way as if he were in his own home, in addition to receiving all the advantages of the University.

The residents are subjected to a reasonable rule with a view to careful supervision, and a solid moral and religious training Constant and intimate intercourse between staff and student is a feature

The health and development of body and mind is promoted by regulated hours of study and recreation Opportunity is given for all kinds of athletic exercise For terms and application, address "The Superior"

RESIDENCE FOR WOMEN

For women students, St Joseph's Convent, St Alban's Street, and Loretto Abbey College, 385 Brunswick Avenue, are providing residences to meet in every way the wishes of all Address "The Superior"

ARGVIJ. HOUSE

100 OUEEN'S PARK

Accommodation for thirty women students is afforded by Argyll House Applications should be made to the Secretary of the Argyll House Committee, 79 St George Street, Toronto, from whom terms of residence may be obtained

STUDENTS ADMINISTRATIVE COUNCIL.

The Students Administrative Council has been entrusted by the Caput with supervision of the conduct of the students, and has power subject to the students of the Caput, to deal with violations of the regulations governing conduct

Any student who may be convicted of having taken part in a parade or procession through the city which has not been authorized by the police authorities after application by the Executive of the Students Administrative Council, will be severely disciplined

WOMEN STUDENTS ADMINISTRATIVE COUNCIL

The Women Students Administrative Council is the representative organ of the women students of the University of Toronto and aims to coordinate all intercollegate activates. It consists of representatives from all colleges and faculties. A fee of \$3 is paid for the council by each woman student proceeding to the Bachelor's degree. The council assumes joint financial responsibility with the men's council for the publication of Varish and Torontoments.

CANADIAN OFFICERS TRAINING CORPS

The Toronto Contingent of the Canadan Officers Training Corps was organized in 1914, with a strength of 12 Companies Its primary organized in 1914, with a strength of 12 Companies Its primary organized in 2014, with a strength of 12 Companies Its primary organized measure of military training with a view to their qualifying for commissioned rate counterly auxiliary forces C O T C certificates of qualification examination for commissioned rate on joining a Military in the facilities which are offered by the contingent for obtaining until the facilities which are offered by the contingent for obtaining the companies of the contingent for obtaining the contingent for obtaining the contingent for the contingent for the contingent of considering the contingent for the

The contingent provides the practical work for students taking the Military Studies option for the Arts degree, as also physical exercise for students who may choose this as the form in which they will take their compulsory Physical Training. In addition to service in the corps for a University credit, students of any year or faculty are trained in it to qualify for officers' certificates, writing on the examinations set by the War Office for members of OT C contingents throughout the Empire

During session 1921-22 three companies were successfully reorganized in Arts, Medicine and Applied Science respectively—and it is hoped so to arrange the training of each that on leaving the University students will be qualified for commissions in that branch of the Militia to which their University course particularly applied

The COTC is a unit of the non-permanent Active Milita but forms no part of the organization for war and cannot be called out for active service as such. It is a training centre for the educated youth of the country from whom, as from all its sons, the Empire requires hard service, but the hardest from those to whom most has been given.

The present Headquarters are at 181 College Street, and include armounies, members' reading room, library and lecture room

The Contingent's Staff is -

Officer Commanding, COLOME, W. R. LANO, late Gen. Staff, C. E.F. Second in Command, MAJOR T. R. LOUDON, late Can. Eng., C. E.F. Adjutant, MAJOR H. H. MADILL, late Instructional Cadre, C. E.F. Quartermaster, CAPT. V. C. KERRISON, late C. A. S. C., C. E.F. Paymaster, LIGHT T. A. REED

Contingent Sergeant-Major, S-M W HUNT, late Royal Welch Fusiliers

ACADEMIC STANDING FOR HIGH SCHOOL ASSISTANT'S

The Department of Education of Ontario has approved the following regulations with respect to the academic standing necessary for admission to the Course for a High School Assistant's Certificate in the Ontario College of Education

I ORDINARY HIGH SCHOOL CERTIFICATE

A candidate for admission shall submit with his application his certificate of graduation as Backelor or Master of Arts, Bachelor or Master of Science, Backelor of Commerce, Backelor of Cognition and Backelor of Applied Science, from a British university, after a regular university course approved by the Minister of Education as to entrance requirements and so to content of the undergraduate courses. Each applicant must have Upper School or Honour Matriculation standing in English and History and Mathematics or the equivalent of such standing

II HIGH SCHOOL SPECIALIST'S CERTIFICATE

Subject to the conditions specified below, the academic standing for admission to the course leading to High School Specialist's certificates in Classics, English and French, English and German or Spanish, French and German or Spanish, English and History, Mathematics and Physics, Science, and Household Secience is an Honour degree in Arts from any one of—the University of Toronto, Queen's University, McMaster University, and the Wester University

- 1 The courses in the departments specified above shall be the Honour courses as defined in the calendars of the respective Universities for the year 1920-21 After due notice from any one of the four Universities, the Minister may accept modifications of its courses for Specialist standing.
- 2 Honour degrees in Arts from other British Universities on courses which are deemed to be the equivalent of those prescribed in the calendars of the four Ontario Universities may be accepted for Specialist
- 3 The courses shall extend over at least five years from Pass Matriculation or, as may be determined under the regulations of the University concerned, over four years from Honour Matriculation
- 4 Candidates shall attend for at least two full academic years Under the direction of the University they may substitute for one of those years, at least two Summer Sessions
- 5 The standard for each year shall be that prescribed by the University for candidates taking Honour courses, with the additional provision that in the final Honour work of the department in which specialist standing is sought, the standard shall be at least Second Class Honours (sattly-six nor cent)
- 6 The Minister shall have authority to deal with any case not covered under the above Each University shall submit to the Minister a recommendation on any case whose merits justify special consideration

THE PEARSON KIRKMAN MARFLEET LECTURESHIP

In November, 1910, Mrs Lydia A Marfleet, of Prophetstown, Illinois, gave the sum of \$5,000 to found a lectureship in the University of Toronto, to be called, in memory of her late husband, the Pearson Kirkman Marfleet Lectureship

The Governors accepted the trust, and have established and agreed to maintain the lectureship in perpetuity

The Governors have undertaken to appoint at least once in every four years some person or persons to deliver a course of lectures in the University of Toronto on this foundation, and as the late Pearson Kirkman Marfiest, an American citzne, devoted constant thought to the plow welfare of his own country, and also watched the growth of the Dominion of Canada with profound interest, the Governors have further undertaken that such person or persons as may from time to time be appointed shall, and far as possible, he chosen with regard to their special ability to set least the some phase or phase or the national movements of each or both countries.

The first course of lectures under this foundation was delivered.

February 10th, 11th and 12th, 1915, by the Honourable William Howard Taft, Ex-President of the United States The second course of lectures was delivered on October 5th, 6th and

The second course of lectures was delivered on October oth, bth and 7th, 1921, by the Right Honourable Sir Robert Borden, G C M G , P C , L.J. D

LAW SOCIETY OF UPPER CANADA

The following extract is taken from the Rules of the Law Society o Upper Canada respecting the qualification required from applicants fo admission as students-at-law —

103 (2) Anyone who shall present proof that he or she has, within four years of his or her application for admission, passed the examination of the University of Toronto prescribed at the end of the first year in the Faculty of Arts entiting him or her to enter unconditionally the second year and to proceed in due course to a degree in Arts, or the examination of any other University in Ontainse equivalent thereto shall be entitled it admission as a student-at-law without further examination by the Society on oxwing the orienthed fee

UNIVERSITY OF OXFORD

A student of the University who has completed two years of the cours in Arts may be admitted to the status of a Junior Colomal Student at the University of Oxford, while a student who has completed three years, and has taken honours in the final examination or who has obtained second class honours in the Third or Fourth Year, may be admitted as a Senior Colomal Student In each of these cases, on complying with certain conditions, a student may obtain his degree at Oxford in two years.

UNIVERSITY OF CAMBRIDGE

The University of Toronto is affiliated to the University of Cambridge and matriculated students who have passed the examinations of the First and Second Years are entitled to admission to the privileges of affiliation, which enable a student to take his degree at Cambridge without completing the full period of residence.

FEES

All University fees, as also the fees of students enrolled in University College, are payable at the Bursar's Office in Simcoe Hall, between the hours of ten and one o'clock, except on Saturday

The College fees of students enrolled in Victoria College are payable to the Fees Clerk of that College

The College fees of students enrolled in Trinity College or St. Michael's College are payable to the Bursar of the College

I UNIVERSITY FEES

Any student proceeding to a Bachelor's degree in the Faculty of Arts and enrolled in University College, or Victoria College, or Tinty College, or St. Michael's College, may attend the lectures of University professor's and lecturers in the Faculty of Arts without payment of the except those imposed for laboratory supplies, but such students must regular in the University

An EUNDEM STATUM FRES

| For admission, by certificate, to Second Year | \$15 00 |
|---|---------|
| For admission ad eundem statum | 10 00 |

LIBRARY FEE

The annual fee

Every student in attendance, proceeding to a Bachelor's degree in the Faculty of Arts, is required to pay at the time of the entry of his name with the Registrar the annual library fee

\$2.00

No occasional or graduate student shall be admitted to the library save upon the payment of the annual fee

CHARGES FOR LABORATORY SUPPLIES

Charges for supplies shall include laboratory materials and instruments used by or for the student, and ordinary wear and tear of instruments, but not charges for waste, neglect and breakage, which are to be met out of a deposit to be fixed by the Professor

The annual supply charges for a student shall be according to the following table in which for convenient reference, the college fees for each year of the various courses are also included, reference being made to the annual fee if paid in October, and not by instalments, for the details of which see pages 167 and 168

| ON FE | COLLEGE COLLEG | Pass Course Principply |
|--------|--|--|
| FIRST | Laboratory Supplies | n coco o co co co co |
| SECOND | COLLEGE ALGISTRATION LABORATORY SUPPLIES | 8 800 000000010 |
| THIRD | College | 4444444 %%%%44%% 4444444 %%%% |
| 9 % | VARORATORY SUPPLIES | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| FOURTH | College | 44%444%%%%%%%% |
| Ea | LABORATORY SUPPLIES | 288855 85888 |
| | 104 | UNIVERSITY OF LORONTO |

IThe Laboratory Supply fee in the Third and Fourth Years is required only from those students who are taking the Household Senere options.
The Laboratory Supply fee us not required from students of St. Michael's College The Laboratory Supply fee us required of students taking a Science as a Pass sub. The Laboratory Supply fee us required of students taking a Science as a Pass sub.

ebrew, Oriental Languages, Oriental Languages (Greek Option), and History, Modern History, Political Science, Philosophy

HART HOUSE FEE

The annual fee

Every male student in attendance proceeding to a Bachelor's degree in the Faculty of Arts, is required to pay to the Bursar before December 1st the annual fee of eight dollars for the maintenance of Hart House If this fee is not paid by the above date a penalty of two dollars will be imposed, making the total fee ten dollars

STUDENTS ADMINISTRATIVE COUNCIL FEE

The annual fee

\$3 00

\$8.00

Every male student in attendance proceeding to a Bachelor's degree in the Faculty of Arts, is required to pay to the Bursar at the time of the entry of his name with the Registrar the annual fee of three dollars for the maintenance of the Students' Administrative Council

WOMEN STUDENTS ADMINISTRATIVE COUNCIL FUR The annual fee

\$3 00

Every woman student proceeding to a Bachelor's degree in the Faculty of Arts, is required to pay to the Bursar at the time of the entry of her name with the Registrar the annual fee of three dollars for the maintenance of the Women Students Administrative Council

MEN'S PHYSICAL TRAINING FEE

The annual fee

The supplemental fee

\$5.00 Every male student in attendance, proceeding to a Bachelor's degree in the Faculty of Arts, is required to pay to the Bursar the annual Physical Training fee of \$5 00 at the opening of each session in which Physical Training is compulsory for such student

WOMEN'S PHYSICAL TRAINING FEE

\$4 00

The annual fee Every woman student in attendance, proceeding to a Bachelor's degree and registered in University College, is required to pay to the Bursar the Physical Training fee of \$4 00 at the opening of each session in which Physical Training is compulsory for such student

SUPPLEMENTAL PHYSICAL TRAINING FEE

\$10.00

Every student who has neglected to complete satisfactorily the course in Physical Training of the First or Second Year and who, under Section 47, must take this work during the Second or Third Year respectively of his or her course, will be required to pay to the Bursar at the opening of the session a supplemental fee of \$10 00 in addition to the prescribed Physical Training fee

EXAMINATION FEES

| Students | proceeding | regularly | to the B | Α | degree |
|----------|------------|-----------|----------|---|--------|
| | | | | | |

| For the June Senior Matriculation | \$15 | 00 | |
|--|------|----|--|
| For each examination other than June | 10 | 00 | |
| For each Supplemental examination | 10 | 00 | |
| Teachers' Course, Occasional and Summer Session Students | | | |
| For examination in one subject of any year, each | 5 | 00 | |

A candidate who fails to pay his University fees on or before the fifteenth of March—the last day for receiving fees prior to the May examination—must pay an additional fee of one dollar

A candidate who fails to send his application for examination by the day appointed for the receipt of such applications must pay an additional fee of one dollar

DEGREE FEES

| For the degree of B A | | \$10 | 00 |
|---------------------------------------|---|------|----|
| For admission ad eundem gradum (B A) | - | 20 (| 00 |

MISCRILANEOUS FRES

For certificate of honour

Maximum fee

\$1 00

10 00

The fee for admission ad eundem statum, or for dispensation from attendance upon lectures, or for certificates of honour, must be paid at the time of application

A candidate who fails to pay his University fees on or before the fifteenth of March—the last day for receiving fees prior to the May examination—must pay an additional fee of one dollar

II COLLEGE FEES

A graduate in Arts, who during his undergraduate course, was enrolled in University College, or Victoria College, or Trinity College, or St Michael's College, may attend lectures free in the college in which he was so enrolled

Every student proceeding to the degree of Bachelor of Arts shall, on each year's enrolment in University College, or Victoria College, or Trimity College, or St. Michael's College, pay an enrolment fee according to the following table, which fee shall include all instruction for which fees are chargeable excent laboratory supply charges and library fees—

TABLE OF FEES FIRST YEAR

| Any course, if paid in full in October except for students on pro- | | |
|--|------|-----|
| bation | \$40 | 00 |
| By instalments | | |
| First instalment, if paid in October . | 20 | 00 |
| Second instalment, if paid in January | 21 | 00 |
| Students on probation-Any course, if paid in full in October | 45 | 00 |
| By instalments — | | |
| First instalment, if paid in October | 23 | 00 |
| Second instalment, if paid in January | | 00 |
| | | |
| | | |
| SECOND YEAR | | |
| Any course, if paid in full in October | 40 | 00 |
| By instalments — | | |
| First instalment, if paid in October | | 00 |
| Second instalment, if paid in January | 21 | 00 |
| | | |
| THIRD YEAR | | |
| n | | |
| Biology, or Physiology and Biochemistry, or Biological and | | |
| Medical Sciences, or Chemistry and Mineralogy I, or | | |
| Chemistry, or Household Science, or Household Econ- | | |
| omics, or Science (General) | | |
| If paid in full in October | 80 | 00 |
| By instalments — | | 00 |
| First instalment, if paid in October | | 00 |
| Second instalment, if paid in January | | 00 |
| Any other course, if paid in full in October | 40 | UU |
| By instalments — | 00 | 00 |
| First instalment, if paid in October | | 00 |
| Second instalment, if paid in January | 21 | 00 |
| | | |
| FOURTH YEAR | | |
| Psychology, or Physics, or Astronomy and Physics, or Chem- | | |
| istry and Mineralogy I, or Chemistry | | |
| If paid in full in October . | 35 | 00 |
| By instalments — | - | ,,, |
| First instalment, if paid in October | 18 | 00 |
| Second instalment, if paid in January | | 00 |
| Second instantions, a paid in January | | |

COMMERCE AND FINANCE (B COMM COURSE)

21 00

First, second, third and fourth years Annual fee, including tuntion, library and one annual examination (the College fee in each of the first, second, third and fourth years is \$30) --

Second instalment, if paid in January

| If paid in full in October | 80 00 |
|---------------------------------------|-------|
| By instalments | |
| First instalment, if paid in October | 40 00 |
| Second instalment, if paid in January | 41 00 |

All the above fees are payable in advance. After October 31st, a penalty of \$1.00 per month will be imposed until the whole amount is paid. In the case of payment by instalments the same rule as to penalty will apply. A student will not be admitted to any of the University lectures or laboratories who is in arrears for his feet.

The annual enrolment fee of a matriculated student taking under the regulations more than one honour course shall be \$40 only

The enrolment fee of a matriculated student attending lectures for one term shall be \$20

FRES FOR DISPRISATION

The enrolment fee for students receiving dispensation from attendance upon lectures in University College, or Victoria College, or Trinity College, or St Michael's College, shall be \$5 for each term, in addition to the University fee of \$5 The payment of these fees entitles the student to supervision of 'verm work' prescribed in connection with his course

\$4 00

University College Literary and Athletic Society Fee

The annual fee \$2 00

Every male student registered in University College and proceeding to a degree shall pay to the Bursar at the opening of the session an annual fee of \$2 for the maintenance of the University College Literary and Athletic Society

UNIVERSITY COLLEGE WOMEN UNDERGRADUATES ASSOCIATION

The annual fee \$1 00

Every woman student registered in University College and proceeding to a degree shall pay to the Bursar at the opening of the session an annual fee of \$1 00 for the maintenance of the University College Women Undergraduates Association

UNIVERSITY COLLEGE WOMEN'S UNION

The annual fee .

Every woman student registered in University College and proceeding to a Bachelor's degree is required to pay to the Bursar at the time of the entry of her name with the Registrar, the annual fee of four dollars for the maintenance of the Women's Union A reduction will be made (a) in the case of those University College students who have paid four dollars for instruction in Athletics, and (b) in the case of graduates, and in these two cases the fee for the privileges of the Union will be reduced to three dollars.

III FEES FOR OCCASIONAL STUDENTS, TEACHERS' COURSE

"A course in laboratory work" means the continuous course of instruction in laboratory or practical work offered to students in any one year in any of the subjects in which laboratory work is or may be prescribed

"A course of lectures" means the continuous course of instruction offered in any one year in any of the subjects in which instruction is or may be given

Laboratory fees are divided into (a) Fees for practical instruction in the laboratory, (b) Charges for supplies, which are the same as for students proceeding to the degree (See page 43)

The payment of fees shall not entitle any occasional student to be admitted to the laboratory work of a later year without having taken that of the earlier year or years, unless this requirement is dispensed with by the Council of the Faculty on the recommendation of the Professor

The annual fee for an occasional student attending a course, or partial course, of lectures shall be as follows —

| For a course in any one subject For a course in more than one subject, each subject Maximum Fee | Session \$10 00 9 00 45 00 | Term \$ 5 00 5 00 23 00 | |
|---|-------------------------------------|----------------------------------|--|
| Examination Fees | | | |

Trutton Fors For the For the

| For examination in one subject of any year, each | .\$ 5 00 |
|--|----------|
| Maximum examination fee | 10 00 |
| All instruction fees are payable strictly in advance | |

PRIZES, MEDALS, SCHOLARSHIPS AND FELLOWSHIPS

No candidate will be permitted to hold more than one scholarship, but any one who would, but for this provision, have been entitled to a second scholarship, will have his name published in the lists

All undergraduate scholars must sign a declaration of intention to proceed to a digree in Arts in this University, and must attend lectures in one of the Colleges for the academic year immediately following such examination. The Senate, however, on the recommendation of the Faculty, may, upon satisfactory reasons being shown, permit such scholar to post-pone attendance upon lectures for a year. If at the end of the year a further postponement is necessary, special application must again be made in every such case the payment of the scholarships will likewise be post-poned. The scholarships are paid in three instalments—on. November 20th, January 20th and March 20th, and before each payment a scholar is required to secure from the Registrar's Office a certificate of attendance upon lectures to be signed by two senior members of the staff

No prize, scholarship or medal will be awarded to any candidate who has been placed lower than the first class in the department to which the prize, scholarship or medal is attached

When the letter "U" is prefixed, the award is made by the Senate of the University on the recommendation of the Council of the Faculty as the result of competition open to the students of all the Colleges In all other cases the letter indicates the governing body by which the award is made—the Council of University College by the letter "C", the Senate of Victoria College by the letter "U", the Corporation of Tranty College by the letter ""," and the Council of St Michael's College by the letter "M".

With the exception of the Jean Balmer Scholarship in Science of the First Year, all honours awarded by the Senate on the recommendation of the Faculty are open to the students of all the Colleges

The competition for a College scholarship, medal or prize is confined to the students registered in that College and shall be subject to such regulations as the College may from time to time determine

PRIZES FIRST VEAR

ITALIAN

U The Italian Prize, the gift of the Minister of Foreign Affairs for the Kingdom of Italy

Awarded in 1921 to Miss J F Struthers, 1922, N P H Brown, 1923, F K Brown

There will be no award in 1925

ENGLISH

- V The Class of 1902 Prize, the gift of Professor C E Auger, B A, of the value of \$10 to the student ranking highest in English of the Pass Course
 - Awarded in 1920 to F G Ward, 1921, Miss R J Stewart, 1922, D M Campbell, 1923, A E Larke
- M The Mahon Prize, the gift of John Mahon, Esq., of the value of \$25 to the student ranking highest in Honour English
 Awarded in 1923 to Miss P M Blake
- M A prize of the value of \$10 to the student ranking highest in English of the Pass Course
 - Awarded in 1920 to E P Butler, 1921, L F Barnett, 1922, Miss M W Coughlin, 1923, Miss M J Phelan

ETHICS

U The Tracy Prize, of the value of \$10, the gift of Professor F Tracy, to the student who, obtaining First Class Honours in the Course in Philosophy (English or History Option) ranks highest in Ethics No award in 1922, 1923, Miss W M Hodges

RELIGIOUS KNOWLEDGE

M A prize, the gift of the graduating class of 1921, of the value of \$25, to the student ranking highest in Religious Knowledge

COMMERCE AND FINANCE

U A Prize, of the value of \$40, to the student ranking first in honours in the Course in Commerce and Finance

SECOND VEAR

ITALIAN

U The Italian Prize, the gift of the Minister of Foreign Affairs for the Kingdom of Italy

Awarded in 1921 to Miss L M Latchford, 1922, Miss J F Struthers, 1923, N P H Brown

There will be no award in 1925

ENGLISH

- C The Alumnae Prize, the gift of the Toronto Alumnae, of the value of \$10 in books, to the student ranking highest in English Composition Awarded in 1920 to Miss H M Cochrane, 1921, E W McInnis, 1922, C S Gulston, 1923, N P H Brown
- V The Webster Prize, the gift of the late J G Hodgins, Esq, MA, LLD, ISO, of the value of \$10, to the student ranking highest in English of the Pass Course
 - Awarded in 1920 to R de la P Stewart, 1921, F G Ward, 1922, F J G Cunningham, 1923, Miss C I Davidson

- M The Hughes Prize, the gift of Frank Hughes, Esq, of the value of \$25, to the student ranking highest in Honour English Awarded in 1923 to Miss B V Larrochell
 - M A Prize, of the value of \$10, to the student ranking highest in English of the Pass Course

Awarded in 1920 to R J Dobell, 1921, Miss A B Ballard, 1922, Miss M R Campbell, 1923, T P McLaughlin

HEBREW

V The Robert Johnston Prize, the gift of the Rev Professor J F Mc-Laughlin, BA, DD, of the value of \$15, to the student ranking highest in Hebrew of the Pass Course

Awarded in 1920 to H M Wright, 1921, T C Wilkinson, 1922, E M Hart, 1923, J M Deck

PHILOSOPHY

M The Kernahan Prize, the gift of W T Kernahan, Esq., in memory of the late Rev Gregory Kernahan, of the value of \$25, to the studget tranking first in the examinations in Philosophy Awarded in 1920 to L J Stock, 1921, L A Cleary, 1922, L F Barnett, 1923, T J Murthe

FIRST AND SECOND YEARS

ENGLISH

V Two Prizes, of the value of \$10 each, will be awarded for the two best essays on a subject to be assigned by the Staff in the Department of English Neither of these prizes will be granted twice to the same student

Awarded in 1920 to L H Miller and Miss M. V Ray, 1921, F G Ward and Miss A E Howard, 1922, N J Endicott and Miss R J Stewart, 1923, Miss R I Jenking and D J Creighton

THIRD YEAR

ITALIAN

U The Italian Prize, the gift of the Minister of Foreign Affairs for the Kingdom of Italy

No award in 1921, 1922, Miss L M Latchford, 1923, Miss J F Struthers

There will be no award in 1925

ENGLISH

V The Hodgins Prize, the gift of the late J G Hodgins, Esq., MA, LLD, ISO, of the value of \$12, to the student ranking highest in English of the Pass Course

No award in 1920 and in 1921, 1922, F G Ward, 1923, Miss K E Elhott.

- M The Phelan Prize, the gift of T N Phelan, Esq, of the value of \$25, to the student ranking highest in Honour English Awarded in 1923 to E. C. L. Bel
- M The Dockeray Prize, of the value of \$25, to the student ranking highest in English of the Pass Course Awarded in 1920 to T S Melady, 1921, Miss M A Hannan, 1922,

Awarded in 1920 to T.S. Melady, 1921, Miss M. A. Hannan, 19 C. B. Lanphier, 1923, no award

ENGLISH BIBLE

V The Massey Bursaries, established by the late Hart A Massey, Esq, one of \$25 and one of \$15, to the students ranking first and second at the examination in the English Bible

Awarded in 1920 to Miss G L Rutherford and E M Cook, 1921, Miss F D Daly and Miss M J Chappell, 1922, Miss G E Metzler and A D Wait, 1923, E R Hall and J L Smith

PHILOSOPHY

M The Hanrahan Prize, of the value of \$25, the gift of W T Kernahan, Esq., in memory of the late John Hanrahan, Esq., to the student ranking first in the examinations in Philosophy No award in 1920, 1921, F J Bart, R J Dobell and L J Stock, asq., 1922. L Cleary, 1923. L F Barnett

HOUSEHOLD SCIENCE

U The Anna Howe Reeve Prize, of the value of \$25, the gift of Dr R A Reeve, "in memory of a true helpmate, whose unselfishness enabled the donor the better to discharge his duty to his Alma Matter". The Committee of Award consists of the President of the University, Professor Brasil Professor Brasil Professor Brasil

Awarded in 1920 to Miss M G Webster, 1921, Miss K E Bennett, 1922, no award, 1923, Miss E B Hislop

FOURTH YEAR

ITALIAN

U. The Italian Prize, the gift of the Minister of Foreign Affairs for the Kingdom of Italy

Awarded in 1921 to Miss G M Cook, 1922 and 1923, no award There will be no award in 1925

ENGLISH

M The Dockeray Prize, of the value of \$25, to the student ranking highest in English of the Pass Course

Awarded in 1920 to Miss F T Ronan, 1921, A T Leacy, 1922, Miss C E Coughlin and L. J Stock, aeg, 1923, Miss E M Dawson.

FRENCH

U The Quebec Bonne Entente Prize, the proceeds from \$1,000, the gift of the delegates from the Province of Quebec to the Bonne Entente Movement

The Prize shall be awarded on the results of (a) an essay in French written on one of a number of subpects in the Examination Hall, (3) translation from English into French, (c) an oral test in which regard shall be had especially to facility in speaking, understanding and pronouncing French. The Prize shall be in money, and it is suggested that it be expended in acquiring a more perfect knowledge of French.

Competitors for this prize must file applications with the Registrar not later than March $15 \mathrm{th}$

Awarded in 1920 to Miss H M McCrimmon, 1921, Miss G M Cook, 1922, Miss H M Cochrane, 1923, H W Hilborn

CANADIAN CONSTITUTIONAL HISTORY

V The Robertson Prize, the gift of W J Robertson, Esq , B A , LL B , of the value of \$10, to the student ranking highest in Canadian Constitutional History

Awarded in 1920 to H D Lang, 1921, M J Ayearst, 1922, E. C Guillet, 1923, R G Start Errics

C The Tracy Prize, of the value of \$10, the gift of Professor F Tracy, to the student who, obtaining Grade A in the Pass Course, ranks highest in Pass Ethics

No award in 1922 and in 1923

T CLASSICS

The Prince of Wales' Prize, \$18, for the highest first class honours in

Classics Awarded in 1920 to J B West, 1921, C E Phillips and J I owe, acq, 1922 and 1923, no award

T MATHEMATICS

The Prince of Wales' Prize, \$18, for the highest first class honours in Mathematics

Awarded in 1920 to P Lowe, 1921, no award, 1922, H J Stowe, 1923, no award

NATURAL SCIENCE

T A prize of \$15 for the highest first class honours in any graduating department of the Natural and Physical Sciences No award in 1920, 1921, Miss R M Nevill, 1922, A H Gec, 1923, no award

MODERN LANGUAGES

T A prize of \$15 for the highest first class honours in Modern Languages No award in 1920, 1921, 1922 and in 1923

ENGLISH AND HISTORY

T A Prize of \$15 for the highest first class honours in English and History No award in 1920 and in 1921, 1922, J D Ketchum, 1923, no award

Modern History

T A Prize of \$15 for the highest first class honours in Modern History No award in 1920, 1921, 1922 and in 1923

PHILOSOPHY

- T A Prize of \$15 for the highest first class honours in Philosophy No award in 1920, 1921, 1922 and in 1923
- M A Prize, of the value of \$50, to the student ranking highest in the Department of Philosophy (5t Michael's College) Awarded in 1920 to J L G Keogh, 1921, no award, 1922, P J Bart, R J Dobell and L J Stock, asg., 1923, no award.

POLITICAL SCIENCE

T A Prize of \$15 for the highest first class honours in Political Science Awarded in 1920 to D A C Martin, 1921 and 1922, no award, 1923, I F Day

COMMERCE AND FINANCE

T A Prize of \$15 for the highest first class honours in Commerce and Finance Awarded in 1920 to T Oakley, 1921, 1922 and 1923, no award

PASS COURSE

T A Prize of \$15 for the highest ranking in Grade A Standing in the Pass Course No award in 1920, 1921 and in 1922, 1923, Miss H I Hope

THIRD AND FOURTH VEARS

BIBLICAL GREEK

V The Wallbridge Prize, the gift of the late A F Wallbridge, Esq, of the value of \$10, to the student ranking first in Life and Letters of St Paul

Awarded in 1920 to H C Wolfraim, 1921, C L Wood, 1922, F J Gardiner, 1923, C H Dickinson

NEW TESTAMENT INTRODUCTION

V The Joy Wallace Prize, endowed by the Rev Professor F H Wallace, MA, DD, of the value of \$15, to the student ranking first in New Testament Introduction and Exegesis

Awarded in 1920 to J H Garden, 1921, W F Monroe, 1922, C L Wood, 1923, S A Moote

ALL THE YEARS

LEWISH HISTORY, LITERATURE, RTC

U The Memorah Praze, the grif of B M Greene, Eaq, of the value of \$80, is open for competition to all undergraduates un attendance at the University. On the recommendation of the examiners the prize will be awarded at the close of the season to the student submitting the best essay on some subject, approved by the President, in Jewah History, Literature, etc. Essays, under psendonym, must be submitted, not later than May list, to the Registrar, from whom the list of approved subjects may be obtained

No award in 1922 and in 1923

FRENCH

C The Squair French Prose Prize, of the annual value of \$10, endowed by Professor Squair, so open for competition among students in attendance upon lectures in University College. The award shall be made annually by the Council of University College on the recommendation of the teachine staff in French. The books awarded are to be chosen

by the winner after consultation with the staff in French Competitors for this prize must file applications with the Registrar of University College not later than March 15th

Awarded in 1920 to Miss K M Asman and Miss H C Kirkwood, aeq, 1921, R A Allen, 1922, Miss D L Arthur, 1923, Miss H E Hetherington

M The Belcourt Prize, the gift of Senator Belcourt, of the value of \$25, to the student who in writing and speaking uses the best French

ENGLISH

V The Lily Denton Keys Prize, of the annual value of \$25, endoned by Mr Norman A Keys, B A, as a memoral for his wife, Lily Derton, B A, is open for competition among all the Arts undergraduates of Victoria College
The subject of the essay shall be "The Present Day Novel"

Awarded in 1920 to H D Langford, 1921, D G Creighton 1922, no award, 1923, Miss K M Davies

M The Hughes Prize, the gift of Frank Hughes, Esq., of the value of \$25, to the student who in speaking and writing uses the best English. Awarded in 1923 to E C Le Bel, M C O'Neill, ex aequo

NEW TESTAMENT HISTORY

V The Ryerson Prize, the gift of the late J G Hodgins, Esq, MA, LLD, ISO, of the value of \$12, to the student ranking first in Synoptic Gospels

Awarded in 1920 to J E Mitchell, 1921, J. W Button, 1922, A E A Menzies, 1923, R E Gosse

ORATORY

7 The Michael Fawcett Prze of \$40 is awarded annually for "the best extemptor outston" on a subject to be assigned at the commencement of each college year by the trustees of the fund. This prize is open to all candidates on probation for the ministry of the Methodist Church No award in 1920, 1921, W J H Smyth, 1922, D M Stimson, 1923, C H Dickmon.

CDEER

F A Prize of \$20 for Greek Prose

No award in 1920, 1921, 1922 and in 1923

LATIN

Γ A Prize of \$20 for Latin Verse

No award in 1920, 1921, 1922 and in 1923

Γ A Prize of \$20 for Latin Essay

No award in 1920, 1921, 1922 and in 1923

GREEK OF LATIN

r A Prize of \$20 for an essay in English on some subject of classical study No award in 1920, 1921, 1922 and in 1923

FRENCH

T A Prize of \$20 for a French Essay No award in 1921, 1922 and in 1923

ENGLISH

T A Prize of \$20 for an English Essay

No award in 1920, 1921, 1922 and in 1923 T A Prize of \$20 for an English Poem

No award in 1920, 1921, Miss D M Sanders, P A Child, proxime accessit, 1922 and 1923, no award

The subjects of these Trinity College Prizes will be posted on the College notice board

HELLENISTIC GREEK

V The Driver Prize of \$10 is awarded annually on the result of an examination held in September on the Septuagint and allied versions The prize is to be open to undergraduate and graduate students

No award in 1920, 1921, 1922 and 1923

MEDALS

SECOND YEAR THE PASS COURSE

U The Governor-General's Silver Medal will be awarded to that candidate who, having Grade A standing in the Second Year, has the highest average percentage of marks obtained at the examinations of the First and Second Years, such examinations having been taken in two consecutive calendar years The discretion of the examiners, as in the examination for the Governor-General's Gold Medal, shall apply also to this examination No award in 1920, 1921, Miss D L Agnew, 1922, Miss A E Gillard, 1923, Miss M S R Boyd

FOURTH VEAR

FOURTH YEAR

GENERAL PROFICIENCY

U The Governor-General's Gold Medal is intended for the encouragement of the study of Englash in those departments in which Englash is not an integral portion of the work of the third and fourth years and will be awarded to that candidate who, taking not less than styn-art per cent. in Englash (as defined belon), and not less than seventy-five per cent in some one of the following honour departments—(o) Classics, (d) Gorek and Hebrew, (c) Ornental Languages, (d) Modern History, (e) Political Science, (f) Commerce and Finance, (g) Philosophy, (d) Mathematics, (o) Physic, (f) Biology, (b) Physiology and Biochemistry, (f) Biodogy, (d) Ceology and Mineralogy, (e) Household Science, (g) Household Economics, (f) Science (General)—half also take the best aereverset mark in Englash and the Honour shall also take the best aereverset mark in Englash and the Honour

Department English shall be understood to mean only the papers based on English Courses 4a, 4b and 4e, as prescribed for Honour Courses The essays prescribed for Honour students are not taken into account in this award

In order to obvate any unfarmess arising from a different system of marking in different departments, the principle shall always be adopted of raising the marks of the best candidate in the first class of each department to the maximum, and those of the others in proportion, unless examiners of any department report that the marks of the best candidate in their department are not of suifficient ment to be so ruised

The Registrar shall publish not only the name of the successful candidate, but also the names of all candidates who, by satisfying the above conditions, are eligible for the award

Competitors for this medal must file applications with the Registrar not later than March 15th

Awarded in 1920 to J N D Bush, Miss M A Dickinson proxime accessit, 1921, T R S Broughton, 1922, Miss G V Levis and Miss M V Ray, aeq., 1923, F G Ward, Miss R V H Kendrick proxime accessit

V The Prince of Wales' Gold Medal, endowed by His late Majesty King Edward VII, will be awarded to the student who ranks first in Grade A Standing in the Pass Course

No award in 1920, 1921, J W Button, 1922, F E Vipond, 1923 no award

- V The Prince of Wales' Silver Medal, endowed by His late Majesty King Edward VII, will be awarded to the student who ranks second in Grade A Standing in the Pass Course
- No award in 1920 and in 1921, 1922, S N F Chant, 1923, no award The Governor-General's Silver Medal will be awarded to the candidate standing highest in Honour Modern English of the Fourth Year examination, provided he has taken First or Second Class in his Honour Department or Grade A Standing in the Fase Course at graduation, First Class Honour men having the preference and provided that this English is not an integral portion of his course In case such a candidate has already received the Governor-General's Gold Medal, the next in rank shall be deitible.
 - Honour Modern English shall be understood to mean only the papers based on English Courses 4a, 4b and 4c. The essays prescribed for Honour students are not taken into account in this award
 - No award in 1920, J N D Bush (mention), no award in 1921, T R S Broughton (mention), 1922, no award, 1923, W H Trethewey
- T The Governor-General's Silver Medal will be awarded to the student taking the best deeper, provided that First Class Honours shall have been obtained in an Honour Course or Grade A Standing in the Pass Course Awarded in 1920 to P Lowe, 1921, Miss R M Nevill, 1922, A. H Gee, H J Stowe prozume accessivi, 1923, J F Day

CLASSICS

C The McCaul Medal (Gold), established in 1886 by the late W H C Kerr, M.A., Gold Medallist in Classics of 1859, in memory of the Rev John McCaul, LL D , First Professor of Classics, and First President of University College It was presented by Mr Kerr from 1886 up to his death, and from 1891 to 1894, after his death, by his widow Since then the donors have been in 1895 John Hoskin, K.C. LL D, Chairman of the Board of Trustees 1906-1910, in 1896 Nicol Kingsmill, M.A., K.C., Classical Medallist of 1856, in 1897, A. M. Crombie, Esq., of Montreal, in memory of his brothers Ernestus Crombie, M A, Gold Medallist in Classics of 1854, and Marcellus Crombie, M. A., LL. B., Gold Medallist in Classics of 1857, in 1898 and 1899 William Dale, M.A., Gold Medallist in Classics of 1871, in 1900 the late John Fletcher, M A , LL D , Gold Medallist in Classics of 1872, and Maurice Hutton, M. A., LL. D., in 1901 Adam Carruthers, M. A., Gold Medallist in Classics of 1880, in 1902 W S Milner, M A . Gold Medallist in Classics of 1881, in 1903 the late G W Johnston, Ph D , in 1904-1922 the Hon Sir J M Gibson, M A, LL D, by whom it was endowed in 1922

The winners of the McCaul Medal have been as follows

1886, W P Mustard, 1887, E O Shter, 1888, H J Crawford (ob), 1889, H J Cody, 1890, James Colling, 1891, C A Stuart, 1892, F W Shipley, 1893, F B R Hellems, 1894, J H Brown (ob), 1895, W T

F. Tanklyn. 1896, Donaid McFayden. 1897, R. O. Jóllufe. 1898, Miss Florence E. Kritwood. 1899, W. H. Alexander. 1900, Miss Landon Wright. 1901, E. J. Kyhe (eb.). 1902, E. H. Gliver. 1903, A. G. Brown. 1904, W. H. Tackalberry (eb.). 1905, E. H. Gliver. 1903, R. W. Hart. 1907, W. A. Rae, 1908, Miss C. M. Knight. 1909, A. G. Hooper. 1910, a ward 1911, C. N. Cochrane. 1912, C. H. Carruthers 1913, H. V. Wrong (eb.). 1914, D. Breslove, 1915, H. R. Kemp. 1916, W. M. Hughl. 1917, Miss E. A. Sinchir, 1918, no award. 1919, Miss E. Marris, 1920, Miss M. A. Dickinson, 1921, H. L. Tracy, 1922, Miss M. C. Needler, 1923, L. A. MacKay.

V The Edward Wilson Gold Medal, founded by the late Bishop Edward Wilson in memory of his son Edward Wilson

Awarded in 1920 to J N D Bush, 1921, T R S Broughton, 1922, no award, 1923, Miss R V H Kendrick

V The S H Janes Silver Medal

No award in 1920, 1921, 1922 and in 1923

Modern Languages

C The Governor-General's Silver Medal

Awarded in 1920 to G H Unwin, 1921, R A Allen and Miss G M Cook, aeq, 1922, Miss G R Bird and Miss K D Cordinglev, aeq, 1923, Miss C P Cohen

V The J J Maclaren Gold Medal

Awarded in 1920 to Miss E M Thornton, 1921, Miss F E Rodman, 1922, no award, 1923, H W Hilborn

V The S H Janes Silver Medal

No award in 1920, 1921, Miss M H R Powers, 1922, no award, 1923, Miss M G Bailey

English (4a, 4b, 4d)

V The Reginald Heber Manning Jolliffe Gold Medal, founded by his mother, in memory of Lieutenant R H M Jolliffe, who fell at Vimy Ridge, April 9th, 1918

Awarded in 1922 to Miss J V McClenaghan (Miss M V Rav ranked), 1923, Miss L M Coburn

ENGLISH

M The Harris Gold Medal, in memory of the late Dean Harris, to the student ranking highest in Honour English

POLITICAL SCIENCE

V The J Reginald Adams Gold Medal, established by Rev and Mrs G K B Adams as a memorial of their son Lieut J Reginald Adams who died of wounds at Etaples, France, November 26th, 1917

Awarded in 1920 to E H McKinney, 1921, 1922 and 1923, no award

V The J Reginald Adams Silver Medal No award in 1920, 1921, 1922 and in 1923 PHILOSOPH'S

V The E J Sanford Gold Medal Awarded in 1920 to W H Moss, 1921 and 1922, no award, 1923, S J Mathers.

V The S H Janes Silver Medal No award in 1920, 1921 and in 1922, 1923, H J S Howev

MATERMATICS AND PRESICS

V The Gold Medal

Awarded in 1922 to Miss A K Rehder, 1923, Miss R Carnahan

V The S H Janes Silver Medal

Awarded in 1920 to G M Shrum, 1921, L W Rentner, 1922, E C Horwood, 1923, W L Webster

PHYSICS

U The James Loudon Gold Medal, the gift of the local Commuttee for The Toronto Meeting of the American Association for the Advancement of Science Awarded to the candidate ranking highest in first class honours

Awarded in 1920 to J A Sonley, 1921, I. W Rentner, 1922, Miss M B Kenrey. 1923, Miss R Carnahan

ASTRONOMY AND PHYSICS

U The Royal Astronomical Society of Canada Gold Medal, awarded to the candidate obtaining the first place in first class honours No award in 1920, 1921, 1922 and in 1923

SCIENCE

V The G A Cox Gold Medal, the gift of Mr Herbert C Cox Awarded in 1920 to Miss E V Eastcott, 1921, A E R Westman, 1922, J H Couch, 1923, G R Balfour

V The Gold Medal

Awarded in 1922 to L C Irvine, 1923, Miss M E Craig

V The S H Janes Silver Medal

No award in 1920, 1921, H D Brown, 1922, J M Luck and Miss K E Bennett, 1923, Miss K G Crosby and Miss M A Caldwell

ALL THE YEARS

NATURAL SCIENCE

U The Cawthorne Medal, the gift of F T Shutt, M A, awarded on the recommendation of the Natural Science Association No award in 1920, 1921, 1922 and in 1923

SCHOLARSHIPS AND FELLOWSHIPS

FIRST YEAR

CLASSICS

C The Moss Scholarship, of the value of \$60, founded by subscription in honour of the late Hon Chief Justice Thomas Moss

Awarded in 1920 to L A MacKay, 1921, no award, 1922, F W Beare, 1923, R R H Page

V The Robertson Scholarship, of the value of \$50, the gift of Professor J C Robertson, M A Awarded in 1920 to Miss R V Kendrick, 1921, Miss I F Irwin,

Awarded in 1920 to Miss R V Kendrick, 1921, Miss I F Irwin 1922 and 1923, no award

SEMITIC LANGUAGES OF GREEK AND HEBREW

T The Pettit Scholarship, of the value of \$40, with free tuition for three years, provided the scholar obtains first class honours at subsequent examinations

Awarded in 1920 to J Lowe, 1921, 1922 and 1923, no award

ORIENTAL LANGUAGES

V The A P Misener Scholarship of the value of \$25, the gift of the Rev W A Potter, M A, B D, in memory of the late Rev Professor Misener Awarded in 1920 to F G Ward, 1921, no award, 1922, F R Vanderburgh, 1923, R M Dingwall

MODERN LANGUAGES

C The Edward Blake Scholarship, of the value of \$60, the gift of the late Hon Edward Blake, formerly Chancellor of the University Awarded in 1920 to Miss K R Manson, 1921, Miss K M Halford and Miss M Spence, acq, 1922, Miss M J MacEwan, 1923, E K Brown

POLITICAL SCIENCE

U The Bankers' Scholarship, of the value of \$70, the gift of the Bank of Toronto, the Canadan Bank of Commerce, the Dommon, Inputs, Standard, and Traders Banks, and the Umon Bank of Lower Canada Only such candidates are eligible as have passed the examination of the First Year and as may undertake to proceed to graduation in the Department of Political Science A special examination on some special text-book of history or finance will be held at the time of the Supplemental examination in September This scholarship is not tenable with any other

The prescribed text-books are as follows:-

1924 D H ROBERTSON, Money (Cambridge Economic Handbooks) 1925 HENDERSON, Supply and Demand (Cambridge Economic Texts) Awarded in 1920 to Miss H M Dean, 1921, no award, 1922, W W Goforth, 1923, H A Stark

MATRICATICS

U A Scholarship, of the value of \$50 No armed in 1999

1923. T D Burk

MATREMATICS AND PRIVATES

U The Alexander T Fulton Scholarship, of the value of \$60, the gift of the late Alexander T Fulton, Eso Awarded in 1920 to M S Bell, 1921, F B Relyea, 1922, R G Starry,

NATURAL AND PROSECUL SCIENCES U The First Alexander T Fulton Scholarship, of the value of \$50, the gift

of the late Alexander T Fulton, Eso. Awarded in 1920 to W T Clapson, 1921, O C H Kitching, 1922.

W I B Dickson, 1928, Miss D F Forward U The Second Alexander T Fulton Scholarship, of the value of \$40, the

gift of the late Alexander T. Fulton, Esq. Awarded in 1921 to W S Keith, 1923, A W H Needler

U The Third Alexander T Fulton Scholarship, of the value of \$30, the gift of the late Alexander T Fulton, Esq.

Awarded in 1921 to H R Hugill, 1923, L I Harris

The Second and Third Scholarships were awarded in 1920 to G C Kelly and C W Sweitzer, asq , and in 1922 to I L Hart and W R Watson, aca

U The Jean Balmer Scholarship in Science, of the value of 850, the gift of Mrs. Jane Balmer in memory of her daughter Miss Jean Balmer, R.A. and in fulfilment of the wish expressed in the will of another daughter Miss Eliza M Balmer B A

This Scholarship is open for competition only to students registered in University College

Awarded in 1920 to W J Clapson, 1921, W S Keith, 1922, I L Mark and W R Watson, aeg , 1923, A W H Needler

ANY HONOUR COURSE

U The Robert Bruce Scholarship, of the value of \$100, founded from the estate of the late Robert Bruce of Quebec This scholarship is open only to students (a) who are of Scottish extraction, (b) who have complete Matriculation in this University as at the date of entrance. (c) who without some assistance would be hampered in entering upon a course of study in the University A student who already holds a scholarship of the value of at least \$100, exclusive of free tuition. cannot qualify for the above scholarship Application for this scholarship should be made to the Registrar of the University

PASS COURSE

M The Knights of Columbus Scholarships, of the value of \$25 each, with free tuition for one year, to the four students ranking highest at the evamination of the First Year, on condition that such students in the following session enter the course in Honour Philosophy of the Second Year or any Honour Course of the First Year

Awarded in 1921 to L F Barnett, W Gavard, G B Keogh and Miss D Fleury, 1922, Miss M E Carroll, J F Flaherty, H J Lippert, and Miss M D Smith, 1923, J P Kane, Miss M J Phelan, Miss N C Story and B W Harrigan

SECOND YEAR

CLASSICS

C The William Mulock Scholarship, of the value of \$60, the gift of the Hon Sir William Mulock, M A, LL D, for many years Vice-Chancellor of the University

Awarded in 1920 to J E A Johnstone, 1921, L A MacKay, 1922, no award, 1923, F W Beare

T The Hart-Moorhouse Scholarship, of the value of \$40, the gift of Alumni, commemorating Messrs W Hart and A C Moorhouse, who were drowned in their graduating year, 1900, to the student ranking highest in first class honours in Classics, or, failing these, in English and History with the classical option

Awarded in 1920 to J Lowe, 1921 and 1922, no award, 1923, A B Robertson

MODERY LANGUAGES

C The George Brown Scholarship, of the value of \$60, founded in honour of the late Hon George Brown

Awarded in 1920 to Miss E A J Shaw, 1921, H R Sneddon, 1922, Miss M L Asman and Miss K M Halford, aeq, 1923, Miss M J MacEwan

FRENCH

V The Essa Van Dusen Dafoe Scholarship, of the value of \$50, the gift of Dr W A Dafoe, in memory of his wife, Essa Van Dusen, to be awarded annually to the student standing highest in a special examination in both or

Awarded in 1920 to L H Miller, 1921, H W Hilborn, 1922, Miss G H McKay, 1923, Miss A G Nelson

ORIENTAL LANGUAGES

V A Scholarship of \$50, the gift of the Rev Professor J F McLaughlin, BA, DD, and others

No award in 1920, 1921, F G Ward, 1922, F E Vipond, 1923, no award

Рипосорну

U The John Macdonald Scholarship, of the value of \$50, the gift of the late Hon John Macdonald

- Awarded in 1920 to W M Mustard, 1921, S J Mathers, 1922, H Moores, 1923, C G Park
- T A Scholarship in Mental and Moral Philosophy, which entitles the holder to free tuition in the Third Year and in the Fourth Year, if he obtains first class bosours in the Second and Third Year

No award in 1920, 1921, J S D Nation, 1922 and 1923, no award

POLITICAL SCIENCE

- U The First Alexander Mackenzie Scholarship, of the value of \$75, the gift of the friends of the late Hon Alexander Mackenzie Awarded in 1920 to R Wood, 1921, C P Halliday, 1922, F J G
- Cunningham, 1923, D M Fleming
 The Second Alexander Mackenzie Scholarship, of the value of \$50, the
 rift of the firends of the late Hon Alexander Mackenzie
- gift of the friends of the late Hon Alexander Mackenzie Awarded in 1920 to G G Brown and R de la P Stewart, aeg , 1921, no award, 1922, J G Kelly, 1923, no award
- T A Scholarship in Political Science which entitles the holder to free tuition in the Third Year and in the Fourth Year, if he obtains first class honours in his Second and Third Year No award in 1920, 1921, 1922 and in 1923

MATHEMATICS AND PHYSICS

- U The William Mulock Scholarship, of the value of \$80, the gift of the Hon Sir William Mulock, M A , LL D , for many years Vice-Chancellor of the University
 - Awarded in 1920 to Miss F F Halliday, 1921, J P Dandy, 1922, Miss K Baird, 1923, no award

PHYSICS

U The Edward Blake Scholarship, of the value of \$45, the gift of the late Hon Edward Blake, M A, LL D, ex-Chancellor of the University No award in 1920 and in 1921, 1922, Miss B M Reid, 1923, no award

BIOLOGICAL AND MEDICAL SCIENCES

U The Edward Blake Scholarship, of the value of \$45, the gift of the late Hon Edward Blake, M A, LL D, ex-Chancellor of the University Awarded in 1920 to J H Couch, 1921, G R Balfour, 1922, W S Keith, 1923, W J B Dickson

(1) BIOLOGY and (2) GEOLOGY AND MINERALOGY

U The Edward Blake Scholarship, of the value of \$45, the gift of the late Hon Edward Blake, M A, LL D, ex-Chancellor of the University No award in 1920, 1921 and in 1922, 1923, (1) W R Watson, (2) C S Hanes

CHEMISTRY AND MINERALOGY

U The Edward Blake Scholarship, of the value of \$45, the gift of the late Hon Edward Blake, M A, LL D, ex-Chancellor of the University Awarded in 1920 to F L. Hutchison, 1921, no award, 1922, J Cryer, 1923, no award

In case one or more of the four foregoing scholarships is not awarded, the amount rendered available will be divided among the other scholars, but no award shall exceed \$60

CHEMISTRY AND MINERALOGY

V The James G Burns Scholarship, of the value of \$50, endowed by the Rev Dr and Mrs R N Burns as a memorial of their son Major James G Burns, D S O, B A, killed in action at Cambrai, France, September 28th, 1918 Awarded in 1992 to O C H Kitching. 1923, no award

THIRD YEAR

CLASSICS

C The Moss Scholarship, of the value of \$60, founded by subscription in honour of the late Hon Chief Justice Thomas Moss Awarded in 1990 to M D C Tatt: 1921. I E A Johnstone. 1922.

MODERN LANGUAGES

L A MacKay, 1923, no award

C The Julius Rossin Scholarship, of the value of \$60, the gift of the late Julius Rossin, M A

Awarded in 1920 to R A Allen, 1921, Miss D L Arthur, 1922, Miss C P Cohen, 1923, Miss K M Halford and P Matenko, aeq

ENGLISH AND HISTORY
V The George Dennis Morse Scholarship, of the value of \$50, founded by
the late Mrs Elizabeth Morse
No award in 1922, 1923, Miss G H McKay

ENGLISH (3a, 3d, 3e)

V The Reginald Heber Manning Jolliffe Scholarship, of the value of \$30, founded by his mother in memory of Lieutenant R H M Jolliffe, who fell at Vimy Ridge, April 9th, 1916

Awarded in 1921 to J C Eastcott, 1922, Miss E R Whittington, 1923, N J Endicott

Рип.озогич

C The John Macdonald Scholarship, of the value of \$50, the gift of the late Hon John Macdonald

Awarded in 1920 to F G Lightbourne, 1921, W M Mustard, 1922 and 1923, no award V The George John Blewett Scholarship, of the value of \$50, the rift of

Mrs G J Blewett in memory of the late Rev Professor Blewett Awarded in 1920 to E W Jewitt, 1921, no award, 1922, S J Mathers, 1923. H Moores

POLITICAL SCIENCE

- U The First Alexander Mackenzie Scholarship of the value of \$75, the gift of the friends of the late Hon Alexander Mackenzie
- gift of the friends of the late 1101 G. Awarded in 1920 to C. M. Vining, 1921, W. G. Thomson, 1922, M. D. Smith, 1923, J. G. Kelly
- U The Second Alexander Mackenzie Scholarship, of the value of \$50, the gift of the friends of the late Hon Alexander Mackenzie Awarded in 1920 to A F Annis, 1921, R J Wood, 1922, no award, 1923. P N Curpe

MATHEMATICS AND PHYSICS

U. A Scholarship of the value of \$80, the gift of the Local Committee for the Toronto meeting of the American Association for the Advancement of Science. In awarding this scholarship, the theoretical and practical work in this department will be estimated in the proportion of three to one.

Awarded in 1920 to H G Smith, 1921, Miss F F Halliday, 1922, Miss C I Lister and W L Webster, aeg, 1923, E H Graham

MATEEMATICS AND PHYSICS, PHYSICS

U The Ramsay Scholarship, of the value of \$50, the girt of the late Mr. William Ramsay, of Bowland, Scotland The scholarship is open for competition to all students in the Third Year in the course of (1) Physics and (2) Mathematics and Physics. The award is made to the student who obtains the highest aggregate standing in experimental physics during the first three years of his course and who elects to proceed to the BA Degree in Physics in Ms final year.

Awarded in 1920 to Miss F M Cale, 1921, E C Horwood, 1922, Miss R Carnahan, 1923, Miss K Baird

PHYSICS

U A scholarship of the value of \$55, the gift of the Local Committee for the Toronto meeting of the American Association for the Advancement of Science

Awarded in 1920 to Miss M F Cale and W C H McQuarrie, aeq , 1921, 1922 and 1923, no award

BIOLOGICAL AND MEDICAL SCIENCES

U The Daniel Wilson Scholarship, of the value of \$30, the gift of the late William Christie, Esq

Awarded in 1920 to Miss E H Chant, 1921, J H Couch, 1922, G R Balfour, 1923, W S Keith

Rrot.ogv

U The Daniel Wilson Scholarship, of the value of \$30, the gift of the late William Christie, Esq Awarded in 1920 to N B Laughton, 1921, Miss K M Millar, 1922, H H MacKay, 1923, no award

In case either of the two foregoing scholarships is not awarded, the amount rendered available will be given to the scholar in the other department

CHEMISTRY AND MINERALOGY

U The Daniel Wilson Scholarship, of the value of \$30, the gift of the late William Christie, Esq

Awarded in 1920 to W G Noble, 1921, no award, 1922, S D Holmes, 1923, H R Hugill

GEOLOGY AND MINERALOGY

U The Daniel Wilson Scholarship, of the value of \$30, the gift of the late William Christie. Esq

Awarded in 1920 to H F Swann, 1921, 1922 and 1923, no award

In case either of the two foregoing scholarships is not awarded, the amount rendered available will be given to the scholar in the other department

FOURTH YEAR

Honour Course

The Jubilee Scholarshup, of the value of \$120, tenable for two years, was founded by the Secety for the Propagation of the Gospel, and is awarded yearly to the most deserving Bachelor of the Year who has obtained at least second class honours. On admission to the scholarship a declaration must be signed by the holder that it is his purpose to complete the Divinity Course in Trinity College and to present himself as a candidate for Holy Orders. Should he fall to do se, he will be held bound to refund to the College such proceeds of the scholarship as he shall have received.

Awarded in 1920 to P W Dawson, 1921, J Lowe, 1922, no award, 1923, L A Spencer

FIRST AND THIRD YEARS

The McClure Scholarship of \$45 will be awarded to the student of the First, Second or Third Year Arts who takes the highest standing in First Year Hebrew at the University, and who is preparing for the study of Theology in Knox College

In order to bold this scholarship a student must give attendance on the lectures of the session in which the scholarship is won, and must sign a declaration that it is his intention to enter the ministry of the Presbyterian Church in Canada, and to prosecute theological study in Knox College.

ALL THE YEARS

- U The Khaki University and Y M C A Memorial Scholarship Fund, established by the Khaki University Committee At the present time this fund is being used to make loans to returned-soldier students of the higher years Applications for such loans should be made to the President of the University.
- U The S Ubukata Fund of \$10,000, the gift of Mr S Ubukata, provides for the establishment of prizes, modals, scholarships and loans for which Japanese students of all faculties and colleges may be eligible Information regarding the conditions of award may be obtained from the Revistra of the University
- V An endowment of \$13,500, provided by a bequest of the late W E H Massey, Esq , will furnish a number of additional scholarships which are awarded under the terms of the will in aid of deserving students
- V The Mrs Massey Treble Scholarship, the interest on an endowment of \$10,000, the bequest of the late Mrs Lilhan Frances Massey Treble, provides a scholarship for the assistance of meritorious young women engaged in the study of Household Science for use in missionary work Awarded in 1919-1924 to Miss M A Caldwell
- V The Rowell Scholarshups, one of \$30 and one of \$20, the gift of the Hon N W Rowell, K C, LL D, and Mrs Rowell, open to all students of Victoria College, will be awarded annually to the students ranking first and second in Church History
 - Awarded in 1920 to C L Wood and J E Mitchell, 1921, J E R, Doxsee and J G Endicott, 1922, P W Hone and S J Mathers, 1923, R S Mills and Miss F A Anderson
- V The Hamitton Fisk Biggar Scholarships, of the value of \$50 each, awarded on the results of the May examinations to the students standing first in the University in those courses, Pass or Honour, where no prizes or scholarships are now offered Preference will be given to the students of the third year
 - Awarded in 1920 to R W Hardy, T R S Broughton, N S Ciark, W L Swanson, A E R Westman, Miss M V Ray, Miss N 4 Yeomans, and L V Smith, 1921, S N F Chant, Miss M E Craig, Miss M B R Fawett, R E Goose, H W Hilborn, Miss H G Mr. Awarder, and C C Oke, 1922, H N Couch, E S Evans, H W Hilborn, Miss G H McKay, C C Oke, R F Trewin, and F G Ward, 1923 Miss M E H Adams, Mass S H Hughson, Miss I F Irwin, J A Irving, Miss E A Jerome, and R F Trevon
- V The Maecham Scholarship, the interest on an endowment of \$3,600, the gift of the late Rev George M Meacham, to be awarded to a student enrolled in Arts and Theology who has announced his intention to proceed to the foreign mission field, the choice to be made by the combined faculties of Arts and Theology.
- V The Lincoln G Hutton Scholarship, of the value of \$100, the gift of the

- late Mr and Mrs F Hutton in memory of their son Lieutenant Lincoln G Hutton, who fell in action in France on December 18th, 1916
- Awarded in 1920 to J N D Bush, 1921, F G Ward, 1922, J G Endicott, 1923, Miss D E Tove
- T The late Ven Archdeacon Nelles, of Brantford, left \$2,000 to Trinity College to be used for the assistance of students in Arts or Theology during their course in the College. Loans will be made from this fund to be repaid by the students after the completion of their College course There are also other funds from which similar loans will be made

UNDERGRADUATE AND GRADUATE

- U THE ALL SOULS' HISTORICAL ESSAY PRIZE
 - 1 The Prize shall be called The All Souls' Historical Essay Prize
 - 2 It shall be of the value of one hundred and fifty dollars
 - 3 It shall be open to all undergraduate members of the University of Toronto, and to graduates who at the time of the awarding of the prize shall not have exceeded one year from the time of graduation
 - It shall be awarded in every second year, beginning in 1910, and the subject shall be announced two years before the time of the award 5. There shall be a choice of two subjects for the Essay—one to be
 - 5 There shall be a choice of two subjects for the Essax—one to be taken from Ancient European History, and one from Mediæval or Modern History

 6 The choice of subjects and the awarding of the prize shall be in the
 - And of an examining board—to consist of the President of the University of Toronto, the Professor of Ancient History in University College, should any of these be unable to act, the remaining members of the Board shall be empowered to uname a substitution of the contract of the contrac
 - 7 The Essay shall involve research work of an original nature, and no porticular books or courses shall be prescribed
 - 8 If the examiners judge any essay to be worthy, it shall be published at the expense of the University
 - 9 The examining board shall have power to prescribe limits as to the length of the essay, and to draw up additional regulations for the administration of the prize, provided always that sections 3, 5 and 7 of these regulations remain unchanged
 - 10 If no essay of sufficient ment be forthcoming it shall be in the power of the examiners to withhold the prize for that term, and to recommend that the money be devoted to whatever purpose they judge most fit to encourage historical research

Essays must be sent to the Registrar of the University on or before April 1, 1926 they must be accompanied by a mottor or pseudomy, and by another and separate envelope containing the name of the candidate, the name of his college, and the month and vear of his matriculation Candidates are advised to have their essays typed, and to confine them to (approximates) 30,000 sords The subject for 1926 is —Thucydides' Interpretation of History or Carlyle as an Historian

Awarded in 1912 to G L B Mackenzie (ob), 1914, W F Wallace, 1918, Miss M G Reid

U The Jardine Memorial Prize for English Verse

1 This prize, of the value of \$100, shall be open to any regular undergraduate student who has been in actual attendance at the University during the academic year preceding the date of submission (November 1) or who graduated in the previous academic year.

2 The subject and metre of the poem shall be left to the choice of the competitor

3 It is suggested that the length of the poem should be not less than 100 or more than 300 ines

4 The poems shall be in the hands of the Registrar of the University by November 1st

5. Each poem shall be signed with a pseudonym and the competitor's name shall be submitted to the Registrar in a sealed envelope on which the pseudonym shall be written

6 With his or her name the competitor shall enclose a signed statement that the poem is absolutely his or her original work

7 The competition shall be judged by a board of five examiners, consisting of the head of the Department of English in each of the four colleges, and of a fifth examiner to be chosen by these four

8 The examiners shall have the power to withhold the award in any year if no poem which has been submitted for that year be found worthy of the prize

Awarded in 1920 to H D Langford, 1921, E W McInnis, 1922 and 1923, no award

U THE RAMSAY SCHOLARSHIP IN POLITICAL ECONOMY

This scholarship, of the value of \$80, is the gift of the late Mr William Ramsay of Bowland, Scotland, and is open for competition to all graduates or undergraduates who have been placed in the first class in one of the Economic subjects of the Fourth Year in the honour department of Political Science, but not more than two years must have elapsed since the competitor passed the examination above specified The award is made upon an essay, the subject of which must be some question in Economics or Finance, of interest to the commercial community in Canada, to be announced in May of each year and the competition closes on the 15th of Spetember thereafter, by which date the essays must be in the hands of the Registrar of the University

1924 Canada's Export Trade Authorities must be carefully stated in every case No award in 1920, 1921, 1922 and 1923

- U THE GEORGE PAYON YOUNG MERORAL FELLOWAIF IN PRILEOSOFT This followship, of the value of \$300, will be awarded in June, 1923. The holder must be a Bachelor of Arts who has taken an honour course in Philosophy. This scholarship is tenable for one year, and the holder must devoke his whole time to the study of some topor falling under the general term Philosophy. He may pursue his studies either in the general term Philosophy. He may pursue his studies either in the Council of the Faculty, but in either case he shall furnish to the Council of the Faculty such evidence as may from time to time be required that he is faithfully observing the conditions under which the scholarship was awarded. Applications must be in the hands of the Registrar on or before June 15th, 1923. Further particulars may be obtained from the Registrar.
 - Those who have hald the Young Fellowship are —1807, M. A. Shaw, B. A., Ph. D., 1809, G. J. Blewett, B. A., Ph. D. (b.), 1809, R. R. Kardson, B. A., 1001, F. S. Wrinch, B. A., Ph. D., 1903, Miss M. A. Downing, B. A., 1905, J. H. Hughes, B. A., 1907, W. T. Brown, B. A., Ph. D., 1911, S. Sanderson, M. A., Ph. D., 1913, E. A. Bott, B. A., 1915, C. A. Gowans, B. A., 1917, no award, 1919, L. C. Harvey, B. A., 1921, no award, 1928, S. J. Mathers, B. A.
- U THE MARION DICKENSON SCHOLAR-HIP IN HOUSEHOLD SCIENCE
 - 1 This Scholarship, which has been founded from a hequest of the late Miss Marion Dickenson, shall be called the Marion Dickenson Scholarship, and is of the annual value of \$2200
 - 2 The Scholarship shall be awarded either to an undergraduate of the University of Toronto, or to a graduate student who holds a Degree from the University.
 - 3 The scholor shall undertake studies in Houschold Economics in Teachers College, Columbia University, New York, within three years after the award is made, but the Schol irship shall not be paid until after the scholar shall have regularly entered upon the course in Colum-
 - after the scholar shall have regularly entered upon the course in Columbia University

 A candidate for the Scholarship shall have obtained First Class

 Honour standing in Household Science at least in her term work on
 - graduation
 5 A candidate who proposes to enter upon an academic career shall have preference
 - 6 In the event of an award not being made in any year the Scholai ship may in exceptional cases be granted for the second year to a previous holder
 - 7 The award shall be made by the Council of the Faculty of Arts on the recommendation of the President and the heads of the Departments of Household Science and Food Chemistry in the Faculty of Household Science.
 - These conditions are subject to change by the Senate and the Board of Governors

Awarded in 1921 to Miss E H Pridham, 1922, Miss C Valentine, 1923, Miss P A Robertson

U Tutorial Fellowships

Tutorial Fellowships in Mathematics, Chemistry and Biology, are awarded annually The selection is made from among graduates of the University Each Fellow is appointed annually, but he may be reappointed for a period not exceeding, in all, three years

Each Fellow is required to assist in the teaching and practical work of his department, under the direction of the professor or lecturer. The Fellows are elected with a special view to their aptitude for teaching and their attainments in the department in which the appointment is to be made. Every Fellow on accopting his appointment comes under an obligation to fulfil the duties of his Fellowship during the according view in which he is amounted, unless socially exempted.

In the Departments of Psychology, Physics, Biology, Physics, Chemistry and Mineralogs a number of Assistant Demonstrators and Class Assistants are appointed annually, whose appointments are made subject to the same conditions as those governing the Tutorial Fellowships. The annual remuneration attached to these positions warras goording to the extent of the duties assigned to the annual remuneration.

Candidates for the Fellowships must send their applications annually to the Registrar, not later than the first day of June

THE RHODES SCHOLARSHIP

The trustees of the late \mbox{Mr} C \mbox{J} Rhodes have assigned one of the Rhodes Scholarships to the Province of Ontario

This scholarship will hereafter be thrown into open competition in the Province, subject to the following conditions—

1. Conductes must be British subjects, with at least five years' domicile.

- in Canada, and immarried They must have passed their nineteenth, but not have passed their twenty-fifth birthday, on October 1st of the year for which they are elected

 2. Candidates must be at least in their Sonhomore Year at some recog-
- 2 Candidates must be at least in their Sophomore Year at some recognized degree-granting University or College of Canada, and (if elected) complete the work of that year before coming into residence at Oxford
- 8 Candidates must cleet whether they will apply for the Scholarship of the Province in which they have acquired any considerable part of their educational qualification, or for that of the Province in which they have their ordinary private domicile, home or residence. They must be prepared to appear before the Committee of Selection for the Province they select.
- In each Province there will be a Committee of Selection, appointed by the Trustees, in whose hands the nomination will rest The Secretary of the Committee of Selection for Ontario is Norman S Macdonnell, Esq, Barrister, Sun Life Building, Toronto

The Committees of Selection will be instructed to bear in mind the suggestions of Mr. Rhodes, who wished that, in the choice of his Scholars, regard should be had to literary and scholastic attainments, fondness for and success in outdoor sports, qualities of manhood, moral force of character, and leadership in school and colleve life

Every candidate for a Scholarship is required to furnish to the Committee of Selection for his Province the following —

- (a) A certificate of age
- (b) A written statement from the President or Acting President of his College or University to the effect that his application as a suitable candidate is annoved
- (c) Certified evidence as to the courses of study pursued by the Scholar at his University, and as to his gradings in those courses This evidence should be signed by the Registrar, or other responsible official, of his University
- (d) A brief statement by himself of his athletic and general activities and interests at College, and of his proposed line of study at Oxford
- (e) Not more than four testimonials from persons well acquainted with
- (f) References to four other responsible persons, whose addresses must be given in full, and of whom two at least must be professors under whom he has studied

It is in the power of the Committee of Selection to summon to a personal interview such of the candidates as they find desirable to see, and, save under exceptional circumstances, no Scholar will be elected without such an interview. Where such an interview is dispensed with, a written statement of the reasons will be submitted to the Trustees.

The next appointment will be made for 1925, applications for this Scholarship with all required material must reach the Secretary of the Committee of Selection not later than October 20th, 1924 The Scholarships are of the value of £300 a vear, and are tenable for

three years, subject to the continued approval of the College at Ovford of which the Scholar is a member They will be paid quarterly. The first payment (£75) will be made at the beginning of the Scholar's first term at Oxford No request for any earlier payment can be considered

On account of the increased cost of living the Rhodes Trust is giving an additional bonus of £50 per annum until further notice

The Rhodes Scholars elected by this University previous to 1919 are as follows ---

- 1904 E R Paterson, University College (ob)
- 1906 R C Reade, University College
- 1908 W K Fraser, University College 1910 A L Burt, Victoria College
- 1913 C H Carruthers, University College
- 1915 A K Griffin, Trinity College

The following Rhodes Scholars, students of this University, have been nominated by the Committee of Selection for Ontario and duly appointed by the Rhodes Trust—

1919 M D C Tait, University College

1920 J R Stirrett, University College 1921 J Lowe, Trinity College

1923 N J Endicott, Victoria College

THE EDWARD KYLIE AWARD

A permanent foundation known as the "Edward Kylie Trust" was established in 1921 by friends of the late Edward J Kylie, M A, of the Department of M.dern History, as a memoral to him The income from this fund is used by the Trustees for the purpose of making an award from time to time to a student in the Modern History Course to enable him to ourse he studies in Great Birtain

Applications should be addressed "The Secretary, The Edward Kylie Trust," and forwarded, before the first of May in each year, through the Registrar of the University, from whom further information can be secured Awarded in 1921 to F H Soward, 1922 and 1923, no award

THE 1851 EXHIBITION SCIENCE RESEARCH SCHOLARSHIP

The Royal Commissioners for the Exhibition of 1851, if satisfied with the qualifications of the candidates put forward, will each year allot three Science Research Scholarships to Canada. The University of Toronto has been invited to recommend annually one or more candidates in order of ment for these Scholarships.

- 1 Each candidate recommended must be a British subject and under twenty-sax years of age, except under very special curumstance, be must be a bona-fide student of Science of not less than three years' standing, he must also have completed a full University comes and have spent at least one full academic year at this University prior to the date of recommendation.
- 2 Applications for these Scholarships must be made to the Registrar of the University not later than March 15th, the latest date on which the recommendation of the University of Toronto for Scholarships offered in 1926 can be received at the Office of the Commissioners is May 1st, 1925.
- 3 Each Scholarship nof the value of £250 per annum, payable quarterly madvance, on presenting to the Commissioners a satisfactory final report at the expiration of his Scholarship the scholar will receive a grant of £25 A scholar who is not, in a position to travel at his own expense, or for whom it is not possible to obtain free passage, may make application to the Commissioners for aid towards the payment of his fare from his University to his place of study A Scholar will receive an additional annual allowance, not exceeding £30 towards the cost of University fees, if, in the opinion of the Commissioners, he is in need of such allowance.

- 4 The Scholarship will be tenable ordinarily for two years, and in cases to except to all ment for three years. The continuation of a Scholar for a second year will depend upon the satisfactory nature of the scholar's first, years's work. Renewal for a third year wall be granted where it appears that the renewal is likely to result in work of scientific immortance.
- 5 The scholar will be required to devote himself to research in some branch of pure science, or its practical applications
- 6 A scholarship may be held, with the approval of the Commusoners, at any Institution at home or abroad, but a scholar will not be permitted, evcept under very special circumstances, to conduct his investigations in the country, in which he has received his scientific education. After consultation with the Head of the Department in which he elects to study, the scholar will submit, for the approval of the Commissioners, his proposed subject of research.
- 7 Scholars will be required to furnish reports of their work at the end of each year of tenure of their scholarships
- 8 Scholars will be required to devote their whole time to the objects of the scholarship, and will be fortided to hold any position of emplument which carries with it a duty inconsistent with their obligation to the Commissioners Scholars must in any case obtain the consent of the Commissioners before acceptate any additional empluments
- 9 In case of misconduct on the part of a scholar the Commissioners may, at their absolute discretion, deprive him of his scholarship and all empluments therefrom

The regulations adopted by the Senate are as follows -

The departments, students of which shall be eligible to be candida'es, are — Il Battenology, 2 Buchemistry, 8 Bestany, 4 Chemistry, 5 Engineering (chemist), 6 Engineering (celtra), 5 Engineering (celtra), 6 Engineering (celtra), 7 Engineering (celtra), 10 Engineering (mining), 11 Forestry, 12 Geology, 13 Mineralogy, 14 Physics, 15 Physiology, 16 Zoology

A student shall not be deemed to be ineligible because of his being on the teaching staff of the University, if he has not been in receipt of a salary of more than \$800 per annum and has not been on the teaching staff for more than two years from graduation

A student shall be deemed to be rightle in the year in which he intends to graduate, but if nominated for the Scholarship his nomination shall be subject to his being successful in passing his examination for his degree

The nonunation of the candidate or candidates shall be made by a Board composed of seven members appointed by the Senate, and the Board shall consist of the Chancellor, the President, the Reverend Dr Bowles, the Honourable Mr Justice Masten, the Honourable Mr Justice Riddell, Dr J A Worrell and F W Harcourt, Esq. and the Board shall have power to call to its aid as assessor any member of the teaching staff.

The 1851 Exhibition Science Research scholars — F I Smale, B A , Ph D , 1892-93, 1893-94, 1894-95 F B Kenrick, M A, Ph D, 1894-95, 1895-96, 1896-97 A M Scott, B A. Ph D . 1896-97, 1897-98 W G Smeaton, B A . Ph D . 1898-99, 1899-1900 J Patterson, B A , 1900-01, 1901-02 W C Bray, BA, 1902-03, 1903-04 E F Burton, Ph D . 1904-05, 1905-06 R H Clark, M A, 1906-07, 1907-08 C S Wright, M A. 1908-09, 1909-1910 W P Thompson, B A, 1910-11, 1911-12 A J Dempster, M A, 1912-13, 1913-14 A R McLeod, M A, 1914-15 (Bursary)

A L Marshall, M A, 1920-21, 1921-22 I M Luck, B A . 1922-23, 1923-24

1916, 1918, 1919, no awards W L Webster, B A . 1923-24

THE JOHN H MOSS MEMORIAL FUND

The John H Moss Memorial Fund, the gift of friends of the late John H Moss, B A , K C , is intended to provide the annual sum of \$800 to be awarded under the following regulations

The graduating class in Arts in each of University College, Victoria College, Trinity College and St. Michael's College, shall select by vote the student whom they regard as the best all-round man or woman in the final year, giving preference during the first ten years to former members of the Canadian Expeditionary Forces, or failing them, to children, brothers or sisters of such former members, or of Canadian officers or men who served at home during the war. Nominations must reach the Secretary of the Alumni Federation of the University of Toronto not later than March

The award shall be made to one of the four students so selected, by a Committee of Award consisting of the President of the University, the President of the Alumni Federation and three of its members

Awarded in 1921 to H D Brown, Victoria College, and P A Child. Trinity College, aeg., 1922, F. L. Hutchison, University College, 1923, I G Endicott, Victoria College, and Miss M A Pickford, Trinity College (additional grant).

DAUGHTERS OF THE EMPIRE POST-GRADUATE OVERSEAS SCHOLARSHIP

This scholarship was founded by the Imperial Order, Daughters of the Empire, as part of the War Memorial of the Order It is of the value of \$1.400, tenable for one year in any British university, the subjects of Government of the Empire and Dominion, or any subject vital to the interest of the Empire The scholarship is open to men or women, British subjects, unmarried, graduates of a Canadian university or in the last year of a course leading to a degree

In awarding the scholarship, the Committee of Selection will take into consideration the War service of the candidate and of members of his or her family, and, other things being equal, will give preference to a returned man, his sister, or his son or daughter

The scholarship will next be awarded to a candidate from Ontario in the autumn of 1925, and the successful candidate will begin his or her studies in a British university in October 1926.

Information respecting this scholarship may be obtained from the Provincial Educational Secretary, IODE, YWCA Building, Main Street, Hamilton, Ontario, from whom forms of application may be secured.

FEDERATION SCHOLARSHIP

The Scholarship of the Federation of University Women in Canada, of the value of \$1,000, available for study or research work, in open to any woman holding a degree from a Canadian University. In general, preference will be given to those candidates who have completed at least one or two years at graduate study and have a definite research in view. The award is based on evidence of character and ability of the candidate and normuse of success in the shinest to which sha see dworther hereits.

The choice of the University at which the successful candidate shall pursue her study or research work is left to the Committee of Selection in consultation with the candidate

There are no application blanks and application is made by letter to the Convener of the Scholarship Committee, Mrs Douglas J Thom, 2220 16th Ave, Regina, Sask, from whom further information may be obtained

Applications and recommendations must be received not later than February 1st None can be accepted after that date

THE McCHARLES PRIZE

This prize was established in connection with the bequest of the late defines McChaels of Pros incall Government broads of the value of \$10,000, and is awarded on the following terms and conditions, namely, that the interest therefrom shall be given from time to time, but not necessarily every year, like the Nobel privace in a small way (1) To any Canadian from one end of the country to the other, and whether student or not, who invents of decovers any new and improved process for the treatment of Canadian ores or immerals of any kind, after such process has been proved to be of special ment to a practical scale, (2) Or for any important

discovery, invention or device by any Canadian that will lessen the danger and loss of life in connection with the use of electricity in supplying power and light. (3) Or for any marked public distinction achieved by any Canadian in secentific research in any useful practical line. The following conditions, as passed by the Board of Governors, determine the method of award or any serior of the conditions.

- (1) The title shall be the McCharles Prize
- (2) The value of the prize shall be One Thousand Dollars (\$1,000 00) in money
- (3) The term "Canadian" for the purpose of this award shall mean any person Canadian born who has not renounced British alliance, and for the purpose of the award in the first of the three cases provided for by the bequest, domicile in Canada shall be an essential condition
- (4) Every candidate for the prize shall be proposed as such in writing by some duly qualified person A direct application for a prize shall not be considered
- (5) No prize shall be awarded to any discovery or invention unless the same shall have been proved to the satisfaction of the awarding body, to possess the special practical merit indicated by the terms of the bequest
- (6) The order of priority in which the three cases stand in the wording of the bequest shall be observed in making the award, that is, the award shall go casters for shut to the inventor of methods of smelting Canadian ores, and, failing such inventions, to the inventor of methods for smelting Canadian the dangers attendant upon the use of electricity, and only in the third event, if no inventors of sufficient merit in the field of metallurgy and electricity present themselves, to the inventor distinguished in the general field of useful is central for reserved.
 - (7) The first award was made in 1910
 - (8) The composition of the awarding body shall be as follows An expert in Mineralogy.
 - An expert in Electricity,
 - An expert in Physics,

and four other persons. All of the members of this body shall be nominated by the Board of Governors of the University of Toronto

COURSES OF INSTRUCTION

The members of the staff indicated under the headings "The Classics", etc, in the following pages, are those of the Session 1923-1924

THE CLASSICS

UNIVERSITY COLLEGE MAURICE HUTTON, M A, LL D Professor of Greek I MACNAUGHTON, M A . LL D Professor of Latin A CARRUTHERS, M A Professor Emeritus W S MILNER, MA Professor of Greek and Roman History G OSWALD SMITH, M A Associate Professor of Latin C N COCHRANG M A Associate Professor of Ancient History E A DALE, MA Associate Professor of Latin D E HAMILTON, MA, D PARD Associate Professor of Greek E T OWEN, M A Associate Professor of Greek A GRANT BROWN, M A Assistant Professor of Ancient History. D DUTF, MA, BD Assistant Professor of Latin MISS E HARRIS, M A Instructor in Laten

VICTORIA COLLEGE

| A J BELL, MA, PHD | Professor Emerstus |
|-------------------------|------------------------------|
| J C ROBERTSON, M A | Professor of Greek |
| N W DEWITT, BA, PHD | Professor of Latin |
| C B Sissons, B A , LL D | Professor of Ancient History |
| H G ROBERTSON, BA, PHD | Lecturer |
| L A MACKAY, B A | Fellow in Latin |

TRINITY COLLEGE

| RINITY COLLEGE | |
|--------------------------|------------------------------|
| REV H T F DICKWORTH, M A | Professor of Ancient History |
| W A KIRKWOOD, M A, Pr D | Professor of Latin |
| J N WOODCOCK, M A | Professor of Latin |
| S M ADAMS, M A | Associate Professor of Greek |
| R E K PEMBERTON, M A | Lecturer |
| Miss S G Morley, M A | Lecturer |

ST MICHARI'S COLLEGE

| MICHAEL'S COLLEGE | |
|-------------------------|------------------------------|
| REV HENRY CARR, BA, LLD | Professor of Greek |
| REV R McBrady | Professor of Latin |
| REV J B WALSH, M A | Associate Professor of Latin |
| M M ESTELLE, M A | Lecturer in Laiin |
| M ST JOHN, BA | Lecturer in Latin |

N B — The following books are recommended for the use of all students taking work in the Classical Department Dictionance Greek—Liddle LAND SCOTT, Greek-English Lession (umbridged or intermediate size), Letim—Lewis AND SCOKT, A Lohn Dictionary (unabridged or intermediate size), Grammans Greek—Goown for Skytts, Greek Grammar, Latim—ALENI AND GREENOUGH of CHUDERSLESVE AND LODGS, Latin Grammar, Histories of Literature Greek—Goown for Skytts, Greek Grammar, Latim—MACRAII, Latim—Literature, Atlases MURRAY, Classical Alics or The Allas of America and Classical Geography in Everyman's Library

GREEK

PASS COURSES

- 1a Translation at sight of passages of ordinary difficulty from Xenophon's historical works, Greek Grammar (including sentences to test accidence' and syntax), NORTH AND HILLARD, Greek Prose Composition, Exercises A, pages 1-85, BELL, Second Greek Reader Four hours a week
- 15 HILLARD AND BOTTING, Elementary Greek Translation Book (This course may be taken only by those specially recommended by their College, and the course must be continued through all four years)
- 20 Translation at sight of easy passages of Greek, Greek Grammar, translation from English into Greek of sentences based on North and HILLARD, Greek Prose Composition, pages 1-155 inclusive, EURIPIDES, Medio, THUCYDIDES, I Chap, 89-117, 128-138 both inclusive Three hours a week
- 2b EDWARDS, Salams, FREEMAN AND LOWE, Greek Reader, Translation at sight (This course is for those who have completed 1b)
- 3a PURVIS, Selections from Plato (approximately sixty pages), Translation at sight To be read in English additional prescribed portions of Plato, TRUCYDIDES, Perclets Funeral Speech, DEMOSTIERNS, Philoppe I DICKINSON, Greek Victo of Life, CRANT, Age of Perclets Three hours a week
- do HOMER, Had I, 1-850, VI, 28T toend, XXII . Odyrge, VI and IX, SOUTOCLES, Gripter, R.C., TRAINBLOOD at 19th. To be read in English. SOUTOCLES, deligence, EURIPHDES, Modes, ARISTOFIANES, Brief. BUXCHES, Applict of Greek Gersus. Chaps 1 and 2, and Hororof Lectures, Chaps 1, 2 and 3, LILINGSTONE, Greek Gensus, JEBB, Classical Greek Fodry Three hours a week.

HONOUR COURSES

1c. Classes Grammar, translation at sight, prose composition, Homen Hand XXII and XXIV, with additional translation of Homer at sight, EURIPIDES, JPhigema in Tourss, Plano, Apology, TRUCYDIDES, I, SS-117, 128-138, DEMOSTHENES, Philoppic I, Olyminacs I, III Five hours a week

- 1d English and History The same as 1c, omitting Demosthenes Four hours a week
 - 1e Greek and Hebrew The same as 1c Five hours a week
- If French, Greek and Laten The same as 1c, omitting THUCYDIDES. Four and a half hours a week
- 1g Philosophy, English and History prose composition, Plato and Thucydides, as in 1c Four hours a week
- 2c Classes Grammar, translation at sight, prose composition, ARISTOBHANES, Birds, Clouds, THEOCRITUS, Idylls I, II, VII, XV, PLATO, Crile, Lackes, THUCYDIDSS IV, 1-41, 58-55, 76-108, with additional translation from Thucydides and Plato at sight, JEBB, Classical Greek Poetry Five hours a week.
- 2d English and History The same as 2c, omitting Greek Grammar and THUCYDIDES Three hours a week
- 2c Greek and Hebrew Translation at sight, ARISTOPHANES, Clouds,
- 2f French, Greek and Latin The same as 2c, omitting THUCYDIDES Four hours and a half a week
- 2g Hellenistic Greek Conybeare and Stock, Selections from the Septuagent One hour a week
- 3b Cluster Grammar, translation at aight, prose composition, Hagnopourus, VII, VIII, IX, Tructrompsis, J.II, Soencotas, Cédepta Rev. Reporposition of the Computer State of the Computer States before Scrates, Oscartes and his contemporaries, (c) the doctrines of Plato and Aristotle and elementary course with special reference to the prescribed texts, and in addition to the Greek texts here prescribed the student should read GROTE, Hatistry of Greek, Chapters LXVIII and CXSHIVAII, and CXSHIVAII, Edgmar's Hatistry of Philosophy, or ROGERS, Shedeni's Hatistry of Philosophy.
 - 3c English and History Plato, as in 3b Two hours a week-
- 3d English and History (Special Option) ARISTOTLE, as in 3b One hour a week
- 3f French, Greek and Latin $\,$ The same as 3b , omitting Herodotus $\,$ Six hours a week
- 3g Hellenistic Greek, Grammar and Philology, The Wisdom of Solomon, Selections from Wisdom of Ben Stra One hour a week
 - 3h Essays on prescribed topics

- 4b. Classics: Historical grammar of Greek and Latin; translation at sight; prose composition; Thucydides, III, IV, V (84-122), VI, VII; Plato, Republic; Aristotle, Politics (selections), Poetics (with the history of the Greek genius and Greek poetry); Aeschylus, Agamemnon; Euripides, Iphigenia in Tauris. Seven hours a week.
- 4c. English and History: ARISTOTLE, Poetics as in 4b. A knowledge of Greek is not essential for this course. One hour a week.
- 4d. English and History (Special Option): PLATO, Republic as in 4b. One hour a week.
- 4e. Greek and Hebrew: PLATO, Republic; History of Philosophy with special reference to Philo, Neo-Platonism, and the Stoicism of the Empire. Three hours a week.
- 4f. French, Greek and Latin: The same as 4b, omitting THUCYDIDES. Six hours a week.
- 4g. Hellenistic Greek: Grammar and Philology; ARISTAEUS; Selections from Patristic Literature. Two hours a week.
- 4h. A course of reading to be approved by the Department, with essays on prescribed topics.

LATIN

PASS COURSES

- 1a. Translation at sight of Latin similar to the prescribed Cicero; translation into Latin of sentences based on the prescribed Cicero; translation of passages from the prescribed Horace; questions on grammar and prosody, and on the subject-matter of the prescribed texts; CICERO, In Catilinam I, III; HORACE, selected Odes. Four hours a week.
 - 1b. The same as 1d. Four hours a week.
- 2a. Translation at sight of Latin similar to the prescribed Livy; translation into Latin of sentences to illustrate Latin syntax; translation into Latin of simple narrative based on the prescribed Livy; translation of passages from the prescribed Catullus; questions on grammar and prosody and on the subject-matter of the prescribed texts; LIVY, Selections from Books XXI-XXX (Dennison, sixty pages); CATULLUS (Simpson). Three hours a week.
- 3a. Course for 1924-1925: Grammar; translation at sight; prose composition; CICERO, Pro Archia; VIRGIL, Eclogues I, IV, VI, VIII, Aeneid VI; PLINY, selected Letters (Prichard and Bernard); MACKAIL, History of Latin Literature. Three hours a week.
- 3a. Course for 1925-1926: Grammar; translation at sight; prose composition; Tacitus, Agricola; Horace, Epistles I, omitting 17 and 18; Juvenal, Satires I, III, X; Pliny, The Death of the Elder Pliny, The Eruption of Vesuvius, The Christians, Trajan's Reply on the Christians; Warde Fowler, Social Life at Rome in the Age of Cicero. Three hours a week.
 - 4a. Same as 3a. Three hours a week.

- Note 1. Students of the Fourth Year who have not passed in the Latin of their Third Year will be required at the B.A. examination of 1924 to take an additional paper on the work of the alternative course.
- NOTE 2. Students of the Fourth Year who, through absence from the University, have not taken the two Latin courses in consecutive years will, at their Final Examination, be required to take the paper on the authors prescribed in 3a which they did not take in their Third Year.

HONOUR COURSES

- 1c. Classics: Grammar, including prosody; translation at sight; prose composition; CATULLUS (Simpson); VIRGIL, Georgics I, IV; HORACE, Odes (selected); CICERO, Philippic II, De Amicitia, with additional translation of Cicero at sight. Four to five hours a week.
- 1d. English and History: The same as 1c, omitting Virgil, Georgics I, and Cicero, Philippic II. Four hours a week.
- 1e. French, Greek and Latin: The same as 1c, omitting Virgil, Georgics I. Four hours and a half a week.
- 2b. Classics: Grammar; translation at sight; prose composition; Plautus, Rudens; Terence, Phormio; Virgil, Aeneid I-VI; Livy, XXI; with additional translation from Livy at sight; Tacitus, Agricola; Mackall, History of Latin Literature. Five to six hours a week.
- 2c. English and History: The same as 2b, omitting Latin Grammar, VIRGIL, Aeneid I-III, and LIVY. Three hours a week.
- 2d. French, Greek and Latin: The same as 2b. Four hours and a half a week.
- 3b. Classics: Grammar; translation at sight; prose composition; CICERO, Letters (Books I and II of Watson's selections); CAESAR, Civil War I; SALLUST, Catiline; VIRGIL, Aeneid VII-XII; HORACE, Epistles (selected), Satires (selected); Lucretius V and selections from I. Six hours a week.
- 3c. English and History: HORACE and LUCRETIUS as in 3b. Two hours a week.
- 3d. English and History (special option): CICERO, CAESAR and SALLUST as in 3b. One hour a week.
- 3e. French, Greek and Latin: The same as 3b, omitting CICERO. Five hours a week.
 - 3f. Essays on prescribed topics.
- 4b. Classics: Historical grammar of Greek and Latin; translation at sight; prose composition; CICERO, Letters (Books III-V of Watson's selections); CAESAR, Civil War; HORACE, Ars poetica; QUINTILIAN X; TACITUS, Annals III-VI, Agricola; JUVENAL, Satires I, III, V, X; MARTIAL (selections); history of post-Aristotelian philosophy. Five hours a week.

- 4c. English and History: CICERO and CAESAR as in 4b. Two hours a week.
- 4d. French, Greek and Latin: The same as 4b, omitting historical grammar and CICERO, and adding BROWNRIGG, Latin Prose of the Silver Age (selections); LUCAN, Book VIII; SENECA, Hercules Furens.
- 4e. A course of reading to be approved by the Department, with essays on prescribed topics.

GREEK AND ROMAN HISTORY

PASS AND HONOUR COURSE

1. General History of Greece to 146 B.C. General History of Rome to A.D. 476. Goodspeed, History of the Ancient World; Bury, Student's History of Greece (Kimball); Pelham, Outlines of Roman History. The course aims at a simple outline of the general historical movement in the Græco-Roman world and at an appreciation of the most characteristic features of Mediterranean civilization.

PASS COURSES

- 2a. A more mature study of Greek History based on Herodotus, Thucydides and Plutarch; criticism of the City State.
- 3a. The Roman Empire from the period of the Great Wars to the death of Caesar; the Greek philosophers, Hellenism and the influence of Greece on Rome.
- 4a. The Empire from Augustus to Justinian, Græco-Roman Civilization; Christianity in the Roman Empire.

Honour Courses

- 2b. The city-state of the Greeks and Romans.
- 3b. Greek History to 431 B.C.
- 3c. Roman History from 133 B.C. to 49 B.C.
- 4b. Greek History from 431 B.C. to 399 B.C.; general questions on Greek History.
 - 4c. Roman History from 49 B.C. to 37 A.D.
- 4d. Roman Institutions: Greenidge, Roman Public Life; Warde Fowler, The Religious Experience of the Roman People; Deloume, Les Manieurs d'argent à Rome; Salvioli, Capitalisme.

ORIENTAL LANGUAGES

UNIVERSITY COLLEGE:

| J. F. McCurdy, Ph.D., LL.D | Professor Emeritus. |
|------------------------------|---------------------|
| W. R. TAYLOR, PH.D | |
| T. J. Meek, B.A., B.D., Ph.D | |
| W. A. IRWIN. M.A., D.B | |

| VICTORIA COLLEGE: | |
|--|----------------------|
| Rev. J. F. McLaughlin, B.A., D.D | Professor. |
| S. H. Hooke, M.A., B.D | Professor. |
| REV. W. A. POTTER, M.A., B.D | Associate Professor. |
| TRINITY COLLEGE: | |
| REV. S. A. B. Mercer, M.A., Ph.D., D.D | Professor. |
| Rev. W. Rollo, M.A | Lecturer. |

PASS COURSES

- 1a. A course in the history of the Hebrew people from the Exodus to 586 B.C.; a literary study of the books of Amos, Hosea, Isaiah and Micah. One hour a week.
- 1b. Hebrew Grammar; translation from Hebrew into English of Gen. 1-4, 18; Pss. 1, 8, 24; translation from English into Hebrew. Introduction to Oriental History. Davidson, Hebrew Grammar; Kittel, Biblia Hebraica; Breasted, Ancient Times. Four hours a week.
- 2a. A course in the history of the Hebrew people from 586 to 4 B.C.; a study of the Prophetic, Legal and Historical Literature of the Old Testament. Two hours a week.
- 2b. Hebrew Grammar with special attention to syntax; translation from English into Hebrew; translation into English of Genesis 37, 40-45; Ex. 3, 4, 15; Ruth; II Samuel 14-19; history of the Massoretic Text and the Versions; outlines of the geography of Palestine. The sources of Hebrew Literature; DAVIDSON, Hebrew Grammar; KITTEL, Biblia Hebraica; BROWN, DRIVER AND BRIGGS, Lexicon. Three hours a week.
- 3a. A literary study of the Poetical books of the Old Testament and of the Synoptic Gospels. Three hours a week.
- 3b. Translation from English into Hebrew; Hebrew history from the settlement in Canaan to the end of the Kingdom (586 B.C.). Translation into English of Amos; Isaiah 1-6, 40-45 and 52-55; II Kings 15-25; Deuteronomy 5-11; Kittel, Biblia Hebraica; Davidson, Hebrew Grammar; Davidson, Hebrew Syntax; Brown, Driver and Briggs, Lexicon; Kent, A History of the Hebrew People, Vols. II and III. Three hours a week.
- 4a. A literary and historical study of Christianity and of its fore-runners. Three hours a week.
- 4b. Translation from English into Hebrew; characteristics of Hebrew poetry; Jewish history from the fall of Jerusalem 586 B.C. to the end of the Maccabaean period. Translation into English of selected Psalms, 100, 95, 24, 15, 48, 87, 114, 81, 147, 148, 150, 46, 47, 93, 97, 8, 19, 29, 103, 104, 65, 67, 118, 21, 116, 30, 74, 89, 90, 20, 72, 42, 43, 22, 51, 137, 84, 122, 110, 107, 23, 78, 127, 133, 45; Zechariah 1-8; Jonah; II Chronicles 1-9; KITTEL, Biblia Hebraica; DAVIDSON, Hebrew Syntax; GESENIUS-KAUTZSCH, Hebrew Grammar; KENT, History of the Jewish People, Vols. III and IV. Three hours a week.

HONOUR COURSES

- 2c. Orientals, Greek and Hebrew: Hebrew Grammar with special attention to syntax. Translation into English, the same as 2b. Hebrew prose exercises. Davidson, Hebrew Grammar; Davidson, Hebrew Syntax. Three hours a week.
- 2d. Orientals, Greek and Hebrew: Translation into English of the Book of Judges 1-12; I Sam. 9-19; II Kings 17-23. Two hours a week.
- 2e. Orientals: Translation into English of Exodus 5-12: 18-21: 34, 14-27; Lev. 8-10; Deut. 8-13; outlines of Hexateuchal Problems. Two hours.
- 2f. Orientals: Grammar of Palestinian Aramaic with translation of extracts from BAER AND DELITZSCH, Text of Daniel and Ezra; MARTI Biblisch-Armaeische Grammatik. Introduction to Syriac Grammar. ROBINSON, Syriac Grammar. Two hours a week.
- 2g. Orientals, Greek and Hebrew: History of the Western Orient until 745 B.C. H. R. HALL, The Ancient History of the Near East (revised edition). One hour a week.
- 3c. Orientals, Greek and Hebrew: Translation into English, the same as 3b. Three hours a week.
- 3d. Orientals, Greek and Hebrew: Translation into English of selections from Isaiah 1-39. Two hours a week.
- 3e. Orientals: Translation into English of selections from Jeremiah, Ezekiel, and the Minor Prophets. Two hours a week.
- 3f. Orientals: Hebrew prose composition and sight translation. Gesenius-Kautzsch, Hebrew Grammar. One hour a week.
- 3g. Orientals, Greek and Hebrew: History of the Western Orient from 745 B.C. to 330 B.C., with special attention to the history, literature and institutions of the Hebrews. One hour a week.
- 3h. Orientals: Arabic First Course; Thatcher, Arabic Grammar with exercises in translating easy prose into English. Two hours a week.
- 3i. Orientals: Advanced course in Aramaic or Syriac. Robinson's Syriac Grammar; BROCKELMANN's Syrische Grammatik. Two hours a week.
- 3j. Orientals: Elements of Assyrian; Fr. Delitzsch, Assyrische Lesestücke. Outlines of Comparative Grammar of the Semitic Languages; Brockelmann, Vergleichende Grammatik. Two hours a week.
- 4c. Orientals, Greek and Hebrew: Translation into English, the same as 4b. Three hours a week.
- 4d. Orientals, Greek and Hebrew: Translation into English of selections from Job, Proverbs and Ecclesiastes. One hour a week.
- 4e. Orientals: Selections from Late Biblical or Post-Biblical Hebrew. One hour a week.

- 4f. Orientals: Hebrew prose composition and sight translation. DAVID-SON, Hebrew Syntax. One hour a week.
- 4g. Orientals, Greek and Hebrew: History of the Western Orient from 330 B.C. to 135 A.D. with special attention to the history and literature of the Jews, and the History of Mahomet and the Caliphate. One hour a week.
- 4h. Orientals: Arabic Second Course; Thatcher, Arabic Grammar (continued); Brünnow, Chrestomathy of Arabic Prose Selections; Harder, Arabic Chrestomathy. Two hours a week.
- 4i. Orientals: Advanced course in Aramaic or Syriac; Nöldekf, Syriac Grammar, Selected Texts. Two hours a week.
- 4j. Orientals: Advanced course in Assyrian. Inscriptions of Sennacherib, Sargon, Asurbanipal. Two hours a week.

Composition: In the first two years of the undergraduate course original essays are required during the session from students taking the Pass and Honour Courses in English, even from those who have received dispensation from attendance upon lectures. These essays, after being care-

ully examined, are returned with suggestions and criticisms, and the marks assigned are reckoned in determining standing in the May examinations.

Throughout the course Composition shall be regarded as a subject disinct from literature, and candidates failing to secure the necessary standing in these essays are required to repeat the work of the year in English Composition.

Provision will be made by a special paper in English composition for the examination of those candidates for Senior Matriculation who are not in attendance, and who have not presented the essays required.

PASS COURSES

- 1a. Composition: The writing of at least four original compositions luring the session.
- 1b. Familiarity with and intelligent appreciation of the following texts: Sir Patrick Spens, Edward, The Braes o' Yarrow, Waly Waly; DRYDEN, extracts from Absalom and Achitophel; POPE, Rape of the Lock; THOMSON, extracts from Summer and Winter; GRAY, Spring, Eton College, Elegy; Goldsmith, Deserted Village; Burns, Address to the Deil, To John Lapraik, To a Mouse, Tam o' Shanter, Last May a Braw Wooer, A Man's a Man for a' that; Wordsworth, Sonnets; Scott, Rosabelle, Brignall Banks, Lochinvar, Old Mortality; Keats, On Chapman's Homer, "Bright Star! would I", The Eve of St. Agnes, On a Grecian Urn, To a Nightingale, To Autumn; Browning, Fra Lippo Lippi, The Bishop orders his Tomb, An Epistle; Huxley, A Piece of Chalk; Morris, The Lesser Arts; Bryce, University Instruction; Hardy, The Return of the Native; selections from Canadian and recent British poetry. [The poetical selections in this paragraphare contained in Representative Poetry and An Anthology of Modern Verse (Methuen).] Two hours a week.
- 2a. Composition: The writing of at least four original compositions during the session.
- 2b. SHAKESPEARE, with special study of Romeo and Juliet, Henry IV, Parts I and II, Twelfth Night, Hamlet. Two hours a week.
- 3a. The writing of essays on subjects connected with one of the Third Year courses in literature.
- 3b. (i) Eighteenth century literature with special study of the following texts: Defoe, Robinson Crusoe and Selections, edited by Masefield (Bell); SWIFT, Gulliver's Travels; Addison, Select Essays (edited by J. R. Green, Macmillan); Johnson, Preface to Shakespeare, Lives of Addison and Pope; Fielding, Tom Jones; Goldsmith, She Stoops to Conquer; Boswell, Life of Johnson (May 16, 1763-end of 1764; April 3, 1773-end of May, 1773; March 21, 1775-May 21, 1775); Burke, Reflection on the French Revolution; Thackeray, Esmond; the selections from Swift, Pope, Burns, Blake, Crabbe in Representative Poetry.
 - (ii) Milton, selections in Representative Poetry, Areopagitica. Three or two hours a week.

- 4a. The writing of essays on subjects connected with one of the Fourth Year courses in literature.
- 4b. Later nineteenth-century literature: selections from Shelley to Morris in Representative Poetry; selections from An Anthology of Modern Verse (Methuen); essays by Shelley and Mill in English Critical Essays of the Nineteenth Century (World's Classics); Carlyle, Scator Resartus (Books I and II); Dickens, Great Expectations; Thackeray, Vanity Fair; Arnold, The Function of Criticism, The Literary Influence of Academies. Three or two hours a week.

Honour Courses

- 1a. Composition: The writing of at least four original compositions during the session.
- 1c. CHAUCER, Prologue, Nun's Priest's Tale, Squire's Tale, with some outline of the history of the English language. One hour a week.
- 1d. Familiarity with and intelligent appreciation of the following texts: Sir Patrick Spens, Edward, The Braes o' Yarrow, Waly Waly; Gray, Spring, Eton College, Elegy; Burns, Address to the Deil, To John Lapraik; To a Mouse, Tam o' Shanter, Last May a Braw Wooer; Wordsworth, Sonnets; Scott, Rosabelle, Brignall Banks, Lochinvar, Old Mortality; Keats, On Chapman's Homer, "Bright Star, would I", The Eve of St. Agnes, On a Grecian Urn, To a Nightingale, To Autumn; Carlyle, Signs of the Times; George Eliot, The Mill on the Floss; Browning, Fra Lippo Lippi, The Bishop orders his Tomb, An Epistle; Huxley, A Piece of Chalk, Administrative Nihilism; Arnold, The Study of Poetry; Morris, The Lesser Arts; Bryce, University Instruction; Hardy, The Return of the Native; selections from Canadian and recent British poetry. [The poetical selections in this paragraph are contained in Representative Poctry and An Anthology of Modern Verse (Methuen).] Two hours a week.
- 2a. Composition: The writing of at least four original compositions during the session.
- 2b. Shakespeare, with special study of Romeo and Juliet, Henry IV, Parts I and II, Twelfth Night, Hamlet. Two hours a week.
- 2c. An outline of sixteenth century literature with special study of the following texts: More, Utopia; Ascham, The Scholemaster; Sidney, Apology for Poetry; Hakluyt, Voyages of Gilbert and Drake; Hooker, Ecclesiastical Polity, Book I; Bacon, Selected Essays, Advancement of Learning, Book I to the beginning of his treatment of "the Dignity of Knowledge"; Spenser, Faerie Queene, Book I; the selections from Wyatt to Hall in Representative Poetry. Two hours a week.
- 3a. The writing of essays on subjects connected with one of the Third Year courses in literature.
- 3b (i). Eighteenth century literature with special study of the following texts: Defoe, Robinson Crusoe, Selections, edited by Masefield (Bell)

- SWIFT, Gulliver's Travels; Addison, Select Essays, edited by J. R. Green (Macmillan); Johnson, Preface to Shakespeare, Lives of Addison and Pope; FIELDING, Tom Jones; Goldsmith, She Stoops to Conquer; Boswell, Life of Johnson (May 16, 1763-end of 1764; April 3, 1773-end of May, 1773; March 21, 1775-May 21, 1775); Burke, Reflections on the French Revolution; Thackeray, Esmond; the selections from Swift, Pope, Burns, Blake, Crabbe in Representative Poetry.
 - (ii) MILTON, selections in Representative Poetry, Areopagitica. Three or two hours a week.
- 3c. Bright, Old English Grammar and selections from the Reader; outlines of Old English literature. Two hours a week.
- 3d. Seventeenth-century literature with special study of MILTON, L'Allegro, Il Penseroso, Arcades, Comus, Lycidas, Sonnets, Paradise Lost, Paradise Regained, Samson Agonistes; selections from Jonson to Butler inclusive in Representative Poetry; MILTON, Of Reformation, The Reason of Church Government, Of Education, Areopagitica; Browne, Religio Medici. Two hours a week.
- 3e. Eighteenth century literature as in 3b (i) together with the omitted selections from DRYDEN to CRABBE inclusive in *Representative Poetry* and DRYDEN, *Essay of Dramatic Poesy*. Three or two hours a week.
- 4a. The writing of essays on subjects connected with one of the Fourth Year courses in literature.
- 4b. Later nineteenth-century literature: selections from Shelley to Morris in Representative Poetry; selections from An Anthology of Modern Verse (Methuen); essays by Shelley and Mill in English Critical Essays of the Nineteenth Century (World's Classics); Carlyle, Sartor Resartus (Books I and II); Dickens, Great Expectations; Thackeray, Vanity Fair; Arnold, The Function of Criticism, The Literary Influence of Academies. Three or two hours a week.
 - 4c. (i) Historical English grammar.
- (ii) Beowulf, lines 1-836, 1321-1382, 1492-1611, 3137-3182; CHAUCER, Troilus and Criseyde, Book I, Prologue to the Legend of Good Women, Sir Thopas, Pardoner's Tale. Two hours a week.
- 4d. Newman, Apologia, The Idea of a University, Preface and Discourses V-VIII; J. S. Mill, Essays on Bentham, Coleridge, Civilization, Utilitarianism, Liberty; Carlyle, Past and Present, Book III, Shooting Niagara—and After?; Ruskin, Unto this Last; Arnold, Culture and Anarchy, Democracy, Equality; Morley, Compromise. Two hours a week.
- 4e. The Development of the English Drama to 1642: reading of the following texts: Noah's Flood, The Sacrifice of Isaac, Secunda Pastorum, Everyman (Pollard's Miracle Plays); UDALL, Ralph Roister Doister; LYLY, Endymion; GREENE, Friar Bacon; MARLOWE, Tamburlaine, Part I.

Edward II; Kyd, Spanish Tragedy; Shakespeare, Othello, King Lear, Antony and Cleopatra, The Tempest; Ben Jonson, Every Man in his Humour; Beaumont and Fletcher, Philaster; Webster, Duchess of Malfi. Two hours a week.

GERMAN

| University College: |
|---|
| W. H. VAN DER SMISSEN, M.A., PH.D Professor Emeritus. |
| G. H. NEEDLER, B.A., PH.D |
| B. FAIRLEY, M.A., PH.D |
| T. HEDMAN, PH.B |
| G. E. Holt, M.A., Mus.BacLecturer. |
| Victoria College: |
| L. E. HORNING, B.A., Ph.D |
| A. E. LANG, M.A |
| Miss M. E. T. Addison, B.A |
| J. D. Robins, M.A |
| TRINITY COLLEGE: |
| A. H. YOUNG, M.A., D.C.L |
| MISS L. C. Scott, M.A |
| St. Michael's College: |
| REV. E. J. WELTY, B.A |
| M. Perpetua, B.ALecturer. |

PASS COURSES

- 1a. Grammar; dictation; pronunciation; translation from modern German; translation from English into German. Four hours a week.
- 1b. Reading of easy prescribed texts in scientific German; translation of similar passages at sight. Two hours a week.
- 2a. Grammar; dictation; pronunciation; translation from modern German; translation from English into German. Three hours a week.
- 2b. Reading of prescribed texts in scientific German; translation of scientific German at sight. Two hours a week.
- 3a. Grammar; dictation; pronunciation; translation from English into German; translation at sight from modern German; outlines of the history of German literature to 1740; life and works of Lessing and Schiller, with special attention to Lessing, Minna von Barnhelm; Schiller, Poems (ed. Nollen), Maria Stuart. Supplementary reading. Three hours a week.

SWIFT, Gulliver's Travels; Addison, Select Essays, edited by J. R. Green (Macmillan); Johnson, Preface to Shakespeare, Lives of Addison and Pope; FIELDING, Tom Jones; Goldsmith, She Stoops to Conquer; Boswell, Life of Johnson (May 16, 1763-end of 1764; April 3, 1773-end of May, 1773; March 21, 1775-May 21, 1775); Burke, Reflections on the French Revolution; Thackeray, Esmond; the selections from Swift, Pope, Burns, Blake, Crabbe in Representative Poetry.

- (ii) Milton, selections in Representative Poetry, Areopagitica. Three or two hours a week.
- 3c. Bright, Old English Grammar and selections from the Reader; outlines of Old English literature. Two hours a week.
- 3d. Seventeenth-century literature with special study of MILTON, L'Allegro, Il Penseroso, Arcades, Comus, Lycidas, Sonnets, Paradise Lost, Paradise Regained, Samson Agonistes; selections from Jonson to Butler inclusive in Representative Poetry; MILTON, Of Reformation, The Reason of Church Government, Of Education, Areopagitica; Browne, Religio Medici. Two hours a week.
- 3e. Eighteenth century literature as in 3b (i) together with the omitted selections from DRYDEN to CRABBE inclusive in Representative Poetry and DRYDEN, Essay of Dramatic Poesy. Three or two hours a week.
- 4a. The writing of essays on subjects connected with one of the Fourth Year courses in literature.
- 4b. Later nineteenth-century literature: selections from Shelley to Morris in Representative Poetry; selections from An Anthology of Modern Verse (Methuen); essays by Shelley and Mill in English Critical Essays of the Nineteenth Century (World's Classics); Carlyle, Sartor Resartus (Books I and II); Dickens, Great Expectations; Thackeray, Vanity Fair; Arnold, The Function of Criticism, The Literary Influence of Academies. Three or two hours a week.
 - 4c. (i) Historical English grammar.
- (ii) Beowulf, lines 1-836, 1321-1382, 1492-1611, 3137-3182; CHAUCER, Troilus and Criseyde, Book I, Prologue to the Legend of Good Women, Sir Thopas, Pardoner's Tale. Two hours a week.
- 4d. NEWMAN, Apologia, The Idea of a University, Preface and Discourses V-VIII; J. S. Mill, Essays on Bentham, Coleridge, Civilization, Utilitarianism, Liberty; CARLYLE, Past and Present, Book III, Shooting Niagara—and After?; Ruskin, Unto this Last; Arnold, Culture and Anarchy, Democracy, Equality; Morley, Compromise. Two hours a week.
- 4e. The Development of the English Drama to 1642: reading of the following texts: Noah's Flood, The Sacrifice of Isaac, Secunda Pastorum, Everyman (Pollard's Miracle Plays); UDALL, Ralph Roister Doister; LYLY, Endymion; GREENE, Friar Bacon; MARLOWE, Tamburlaine, Part I,

Edward II; Kyd, Spanish Tragedy; Shakespeare, Othello, King Lear, Antony and Cleopatra, The Tempest; Ben Jonson, Every Man in his Humour; Beaumont and Fletcher, Philaster; Webster, Duchess of Malfi. Two hours a week.

GERMAN

| University College: |
|------------------------------------|
| W. H. VAN DER SMISSEN, M.A., Ph.D |
| G. H. NEEDLER, B.A., PH.D |
| B. FAIRLEY, M.A., Ph.D |
| T. HEDMAN, Ph.B |
| G. E. Holt, M.A., Mus.BacLecturer. |
| VICTORIA COLLEGE: |
| L. E. HORNING, B.A., PH.D |
| A. E. LANG, M.A |
| Miss M. E. T. Addison, B.A |
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| MISS L. C. Scott, M.A |
| St. Michael's College: |
| REV. E. J. WELTY, B.A |
| M. Perpetua, B.ALecturer. |

PASS COURSES

- 1a. Grammar; dictation; pronunciation; translation from modern German; translation from English into German. Four hours a week.
- 1b. Reading of easy prescribed texts in scientific German; translation of similar passages at sight. Two hours a week.
- 2a. Grammar; dictation; pronunciation; translation from modern German; translation from English into German. Three hours a week.
- 2b. Reading of prescribed texts in scientific German; translation of scientific German at sight. Two hours a week.
- 3a. Grammar; dictation; pronunciation; translation from English into German; translation at sight from modern German; outlines of the history of German literature to 1740; life and works of Lessing and Schiller, with special attention to Lessing, Minna von Barnhelm; Schiller, Poems (ed. Nollen), Maria Stuart. Supplementary reading. Three hours a week.

4a. Grammar; dictation; pronunciation; translation from English into German; translation at sight from modern German; outlines of the history of German literature from 1740; life and works of Goethe with special attention to *Poems* (ed. Schütze), *Hermann und Dorothea*. Supplementary reading. Three hours a week.

HONOUR COURSES

- 1c. Translation at sight from modern German; FIEDLER, Book of German Verse (pages 1-143); KELLER, Das Fähnlein der sieben Aufrechten; LESSING, Minna von Barnhelm. Supplementary reading. Two hours a week.
 - 1d. Oral term work; composition. Two hours a week.
 - 1e. Political and social history of Germany to 1500.
- 1f. Composition; writing of business letters; practice in reading and writing German script; oral exercises. One hour a week.
 - 1g. Reading of selected texts in German. Two hours a week.
 - 1h. German pronunciation and phonetics. One half-hour a week.
- 2c. Translation at sight from modern German; history of German literature in the eighteenth century with special attention to Lessing and Schiller; Lessing, *Emilia Galotti*, *Nathan der Weise*; Schiller, *Kabale und Liebe*, *Wallensteins Tod*. Supplementary reading. Two hours a week.
 - 2d. Oral term work; composition. One hour a week.
- 2e. Political and social history of Germany from 1500 to 1713. One hour a week.
- 2f. Reading of German texts; practice in business correspondence and conversation in German. Three hours a week.
- 3b. Life and works of GOETHE with special attention to Lyrical Poems (ed. Schütze), Werther, Torquato Tasso, Dichtung und Wahrheit (ed. von Jagemann), Faust, Part I. Supplementary reading. Three hours a week.
 - 3c. Oral term work; composition. One hour a week.
- 3d. Political and social history of Germany from 1713 to 1815. One hour a week.
 - 3e. Essays on prescribed topics.
- 3f. Reading of German texts; practice in business correspondence and conversation in German. Three hours a week.
- 4b. The development of German literature of the nineteenth century, with special attention to Kleist, Das Käthchen von Heilbronn; Grill-Parzer, Die Ahnfrau; Heine, Zur Geschichte der Religion und Philosophie in Deutschland, Die romantische Schule; Hebbel, Gyges und sein Ring; Keller, Der Landvogt von Greifensee; Mann, Th., Buddenbrooks; Hauptmann, Festspiel. Supplementary reading. Two hours a week.
 - 4c. Oral term work; composition. One hour a week.

- 4d. Middle High German grammar; history of the German language; history of Middle High German literature; WRIGHT, Middle High German Primer. One hour a week.
- 4e. Political and social history of Germany from 1815 to the present. One hour a week.
- 4f. Reading of German texts; practice in business correspondence and conversation in German. Three hours a week.
 - 4g. Essays on prescribed topics.

FRENCH

| | FRENCH | |
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| J J S F I I J | BERSITY COLLEGE: OHN SQUAIR, B.A. Professor Emer T. H. CAMERON, M.A. Profe S. WILL, B.A., PH.D. Profe ST. E. DE CHAMP, B. ÈS L., O.I.P. Associate Profe F. C. A. JEANNERET, B.A. Associate Profe M. MORAUD, L. ÈS L., AGRÉGÉ DE L'UNIVERSITÉ Associate Profe H. S. MCKELLAR, B.A Assistant Profe L. ALLEN, PH.D. Assistant Profe L. ALLEN, PH.D. Lect W. J. MCANDREW, M.A. Lect L. A. BIBET Instru A. E. TILBY. Instru MISS J. C. LAING, B.A. Instru MISS F. COLE, B.A. Assis MRS. E. PATTERSON Assis | ssor. ssor. ssor. ssor. ssor. ssor. ssor. urer. uctor. uctor. uctor. |
| : | ORIA COLLEGE: H. E. FORD, M.A., PH.D | essor. turer. turer. uctor. |
| TRIN | IITY COLLEGE: R. E. L. KITTREDGE, M.A | essor. turer. turer. uctor. |
| | MICHAEL'S COLLEGE: REV. W. H. MURRAY, B.A | turer. |

Note.—In order to be a member of any class in French, a student must satisfy the instructor as to his ability to profit by the instruction given. Supplementary reading under the direction of the staff may be required of students in all years.

PASS COURSES

- 1a. Grammar; dictation; translation from English into French; translation at sight from modern French. The following texts are prescribed: ALEXANDRE DUMAS, Le Comte de Monte-Cristo (ed. by Tarver); PROSPER MÉRIMÉE, Quatre contes; ERCKMANN-CHATRIAN, Le Juif polonais; OCTAVE FEUILLET, Le Village; Alphonse Daudet, Lettres de mon moulin. Four hours a week.
- 1b. Grammar; dictation; translation from English into French; translation at sight from modern French. The reading of the following texts: Contes de la France contemporaine (ed. by Daniels); Alphonse Daudet, Lettres de mon moulin; Erckmann-Chatrian, Le Juif polonais. Two hours a week.
- 1c. Study of prescribed texts and sight work of scientific nature. Two hours a week.
- 2a. Grammar; dictation; translation from English into French; translation at sight from modern French. The following texts are prescribed: PIERRE LOTI, Pêcheur d'Islande; French Short Stories (ed. Buffum); ANATOLE FRANCE, Le Livre de mon ami; ROSTAND, La Princesse lointaine; HERVIEU, La Course du Flambeau; Supplementary reading: LAVISSE, Histoire de France (Cours moyen). Three hours a week.
- 2b. Study of prescribed texts and sight work of scientific nature. Two hours a week.
- 3a (1). Standards of the classical age and the main ideas of the eighteenth century, studied in French literature from Malherbe to the philosophes. ABRY, AUDIC ET CROUZET: Histoire illustrée de la littérature française; French Prose of the XVIIth Century (ed. Warren); Cornellle, Le Cid, Molière, Le Misanthrope; Racine, Andromaque; La Fontaine, Fables, Voltaire's Prose (ed. Cohn and Woodward).
- (2) Supplementary reading from the authors of the period, carried on under the direct supervision of the instructors, forms an essential part of this course.
- (3) Composition; translation at sight from modern French. Three hours a week.
- 4a (1). Forces and movements in French literature since 1750. ABRY, AUDIC ET CROUZET: Histoire illustrée de la littérature française; Pages choisies de J.-J. ROUSSEAU (ed. Rocheblave); French Lyrics of the XIXth Century (ed. Henning); VICTOR HUGO, Hernani; BALZAC, Gobseck; ÉMILE AUGIER, Les Effrontés; RENÉ BAZIN, Le Blé qui lève.

- (2) Supplementary reading from the authors of the period, carried on under the direct supervision of the instructors, forms an essential part of this course.
- (3) Composition; translation at sight from modern French. Three hours a week.

Courses for Students in Commerce

- 1d. Study of the following texts: Alexandre Dumas, Le Comte de Monte-Cristo (ed. by Tarver); Mérimée, Quatre contes; Erckmann-Chatrian, Le Juif polonais; Feuillet, Le Village; Alphonse Daudet, Lettres de mon moulin. Two hours a week.
 - 1e. Exercises in French grammar and composition. One hour a week.
 - 1f. Practical work in oral French. One hour a week.
- 2c. Study of the following texts: French Short Stories (ed. Buffum); PIERRE LOTI, Pêcheur d'Islande; Anatole France, Le Livre de mon ami; EMILE MALAKIS, Le Français du Commerce. Two hours a week.
 - 2d. Exercises in French grammar and composition. One hour a week.
 - 2e. Practical work in oral French. One hour a week.
- 3b. Practical exercises in French conversation and commercial correspondence. Study of the following texts: E. Janau, Commercial Correspondence; La France qui travaille (ed. Jago); POOLE and BECKER, Commercial French. Two hours a week.
- 4b. Practical exercises in French Conversation, and Commercial Correspondence. Study of the following texts: Poole and Becker, Commercial French II; E. Janau, Commercial Correspondence; P. Clerget, Manuel d'Économie commerciale.

Honour Courses

In determining the standing of all candidates in Honour French, examiners will take into account the reports of the instructors in this subject.

Students taking the full Honour French course must make satisfactory progress in the oral use of the language. Opportunity for this work will be provided in each of the four years.

1g. Grammar; dictation; pronunciation; translation from English into French; translation at sight from modern French.

Survey of French literature with special reference to the mediæval period. The following texts are prescribed for critical study: ÉMILE AUGIER, Le Gendre de Monsieur Poirier; ANATOLE FRANCE, Le Crime de Sylvestre Bonnard; Alphonse Daudet, Lettres de mon moulin; Quelques contes des romanciers naturalistes (ed. Dow and Skinner); French Lyrics (ed. Canfield). Four hours a week.

- 1h. French Phonetics.
- 1i. Outlines of Mediæval History.
- 2f. History of French literature from the middle of the sixteenth century to the end of the seventeenth century, illustrated by the reading of texts from which the following are prescribed for critical study: French Verse of the XVIth Century (ed. Wright); Bossuet, Oraison funèbre de Louis de Bourbon; La Bruyère, Caractères (De la Cour); Corneille, Le Cid; Racine, Bérénice, Athalie; Molière, L'Avare, Le Misanthrope; Boileau, L'Art poétique; La Fontaine, Fables (ed. Clément). Two hours a week.
 - 2g. History of France in the sixteenth and seventeenth centuries.
- 2h. Simple narrative composition; translation from English into French; translation at sight. One hour a week.
- 3c. History of literature and ideas in France during the eighteenth century, illustrated by texts from which the following are prescribed for critical study: Lesage, Turcaret; Marivaux, Le Jeu de l'amour et du hasard; Montesquieu, L'Esprit des lois (Books I, II, III); Voltaire, Zaïre, Zadig, Micromégas, Prose (ed. Cohn and Woodward, pp. 1-73, 118-162, 294-347); Rousseau, Pages choisies (ed. Rocheblave); Beaumarchais, Le Mariage de Figaro or Le Barbier de Séville; André Chénier, L'Aveugle, La Jeune Tarentine, Le Jeu de Paume, La Jeune Captive; Chateaubriand, Atala.
- 3d. The Classic ideal as represented in critical writings from the Pléiade to the beginnings of Romanticism. The following texts will be used: DU BELLAY, Défense et illustration de la langue française; BOILEAU, Selections from the Satires, Epîtres, and the Art pétique; VOLTAIRE, Essai sur la poésie épique; DIDEROT, De la poésie dramatique; ROUSSEAU, Lettre à M. d'Alembert; MME DE STAËL, De la littérature.
 - 3e. History of France in the eighteenth century.
- 3f. Composition; translation from English into French; translation at sight.
 - 3g. Essays on prescribed topics.
- 4c. (1) History of French literature from 1815 to the present, and acquaintance with representative works of this period. (2) Critical study in the lyric poetry of the Romantic period (VICTOR HUGO and ALFRED DE VIGNY); in the realistic novel (HONORÉ DE BALZAC and GUSTAVE FLAUBERT) and in the modern drama (HENRY BECQUE and PAUL HERVIEU). (3) Readings from French-Canadian Poetry.
- 4d. History of France from the beginning of the nineteenth century to the present.
- 4e. Composition; translation from English into French; translation at sight from French authors of any period.
 - 4f. Elementary course in Old French.
 - 4g. Essays on prescribed topics.

ITALIAN AND SPANISH

| M. A. Buchanan, B.A., Ph.D | Professor. |
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| [. E. Shaw, A.B., Ph.D | Professor. |
| E. Goggio, M.A., Ph.D | Assistant Professor. |
| G. C. Patterson, M.A | Assistant Professor. |
| Juan Cano, A.M | Assistant Professor. |
| H. W. HILBORN, B.A | Lecturer. |

ITALIAN

- 1a. Grammar; pronunciation and dictation; translation; oral exercises. Fext-books: L'Italia (Wilkins and Marinoni). Four hours a week.
 - 1b. Italian Phonetics. One hour a week (Michaelmas term).
 - 1c. (For students who have matriculated in Italian.) The same as 2a.
- 2a. Grammar; dictation; translation; composition; oral exercises. Textpooks: Grandgent, *Italian Grammar; Il Risorgimento* (ed. Van Horne).
 GIACOSA, *Tristi Amori* (Altrocchi and Woodbridge); GOLDONI, *Un curioso accidente* (ed. Ford). Three hours a week.
- 2b. (For students who have matriculated in Italian.) The same as 3a. 3b.
- 3a. Grammar; translation. Text-book: CARDUCCI, Antologia (ed. Mazzoni e Picciola). Leopardi (ed. Straccali). One hour a week.
- 3b. History of Italian literature: the later Renaissance: Text-books: Castiglione, *Il Cortegiano* (ed. Cian); Cellini, *Vita* (ed. Bianchi); Hauvette, *Littérature italienne*. Two hours a week.
- 3c. Composition in Italian and oral exercises; lectures in Italian on the art, history, and literature of Italy. Supplementary reading: SYMONDS, The Age of Despots. Two hours a week.
 - 3d. Essays on prescribed topics.
- 3e. (For students in Commerce.) Reading of prescribed texts; composition and oral practice; commercial correspondence. Text-books: HECKER, Il Piccolo Italiano; ORSI, Italia Moderna. Three hours a week.
- 3f. (For students in Commerce who have matriculated in Italian.) The same as 4d.
- 4a. History of Italian literature; the early Renaissance. Text-books: Dante, *Divina Commedia* (ed. Grandgent); Petrarch, *Rime* (ed. Carducci e Ferrari); Hauvette, *Littérature italienne*. Three hours a week.
- 4b. Composition and oral exercises; lectures in Italian on the art, history, and literature of Italy. Supplementary reading: VILLARI, *Mediaeval Italy*. Two hours a week.
 - 4c. Essays on prescribed topics.
- 4d. (For students in Commerce.) Reading of prescribed texts; composition and oral practice; commercial correspondence. Text-books: PITMAN, Mercantile Correspondence; RICCI, Commercial Italian Grammar. Lectures on the history, geography, and economic development of Italy. Three hours a week.

SPANISH

- 1a. Grammar; pronunciation and dictation; translation; oral exercises. Text-books: Crawford, First Book in Spanish; Hills, Spanish Tales for Beginners (For Honours); WILKINS, Beginners' Spanish Reader (For Pass). Four hours a week.
 - 1b. Spanish Phonetics. One hour a week (Michaelmas term).
 - 1c. Elementary Spanish for students in the Faculty of Applied Science.
 - 1d. (For students who have matriculated in Spanish.) The same as 2a.
- 2a. Grammar; dictation; translation; composition; oral exercises. Text-books: Palacio Valdés, La Hermana San Sulpicio (ed. Gill); Cool, Spanish Composition; Espinosa, Composition. Three hours a week.
- 2b. (For students who have matriculated in Spanish.) For pass the same as 3a; for honours Valera, Pepita Jiménez; Pérez Galdós, Doña Perfecta. Composition in Spanish and oral exercises; lectures in Spanish. Supplementary reading: Azorín, El Alma castellana. Three hours a week.
- 3a. History of Spanish literature in the nineteenth century. Text-books: ESPRONCEDA, El Estudiante de Salamanca (ed. Northup); VALERA, Pepita Jiménez (ed. Lincoln); PÉREZ GALDÓS, Doña Perfecta; MARTÍNEZ SIERRA, Un Sueño de una noche de agosto; ECHEGARAY, O Locura o santidad (ed. Geddes); BENAVENTE, La malquerida; FITZMAURICE-KELLY, Chapters on Spanish Literature. Three hours a week.
- 3b. Composition in Spanish and oral exercises; lectures in Spanish on the art, history, and literature of Spain and Spanish America. Supplementary reading: Azorín, El Alma castellana. Two hours a week.
 - 3c. Essays on prescribed topics.
- 3d. (For students who have matriculated in Spanish.) For honours the same as 4a, 4b; for pass the same as 4a.
- 3e. (For students in Commerce.) Valera, Pepita Jiménez; Pérez Galdós, Doña Perfecta. Composition in Spanish and oral exercises; lectures in Spanish. Supplementary reading: McHale, Commercial Spanish; Blasco Ibáñez, Vistas Sudamericanas. Three hours a week.
- 3f. (For students in Commerce who have matriculated in Spanish.) The same as 4e.
- 4a. History of Spanish literature: the Golden Age. Text-books: Cervantes, Don Quijote; Lazarillo de Tormes (ed. Cejador); Lope de Vega, Amar sin saber a quién; Calderón, La Vida es Sueño; The Oxford Book of Spanish Verse; Fitzmaurice-Kelly, Chapters on Spanish Literature. Three hours a week.
- 4b. Composition and oral exercises; lectures in Spanish on the art, history, and literature of Spain and Spanish America. Supplementary reading: Azorín, Al Margen de los Clásicos. Two hours a week.
 - 4c. Essays on prescribed topics.
- 4d. (For students who have matriculated in Spanish.) Reading of prescribed texts; composition and oral practice; essays. Three hours a week.

- 4e. (For students in Commerce.) Reading of prescribed texts; composition and oral practice, based on mercantile topics; commercial correspondence. Text-books: M. ROMERA-NAVARRO, Manual del Comercio; Carlos F. McHale, Commercial Spanish. Lectures on the history, geography and economic development of Spanish America. Text-book: W. R. Shepherd, Latin America. Three hours a week.
- 4f. (For students in Commerce who have matriculated in Spanish.) Reading of prescribed texts; composition and oral practice; essays. Three hours a week.

PHONETICS

Elementary physiological phonetics, with practical exercises in the sounds of the modern languages studied. One hour a week in the Second Year of the Modern Language Course.

HISTORY

| G. M. Wrong, M.A., LL.D | Professor. |
|--------------------------------|----------------------|
| G. M. SMITH, M.A | Associate Professor. |
| R. Flenley, M.A., B.Litt | |
| W. P. M. KENNEDY, M.A., LITT.D | |
| H. H. WRONG, B.A., B.LITT | |
| W. S. Wallace, M.A, | Special Lecturer. |
| S. H. HOOKE, M.A., B.D | |
| J. B. Brebner, B.A | Lecturer. |
| Miss M. G. Reid, B.A., B.Litt | Lecturer. |
| L. B. Pearson, B.A | Lecturer. |

(Note:—No text-books are prescribed in History. Some of the more important books are listed after the description of each course for the guidance of students.)

PASS COURSES

- 1a. The History of Canada: from the age of discovery to the present day. For the main subjects of study and list of books, see Honour Course 1c.
- 1b. The History of the United States: from the Revolution to the present day. For the main subjects of study and list of books, see Honour Course 1d.
- 2a. The Renaissance and the Reformation in Europe with an introductory survey of the Middle Ages. For the main subjects of study and list of books, see Honour Course 2d.
- 2b. British History, 1485-1689. For the main subjects of study and list of books, see Honour Course 2e.

- 3a. Europe, 1763-1815. For the main subjects of study and list of books, see Honour Course 3c.
- 3b. British History, 1689-1815. For the main subjects of study and list of books, see Honour Course 3d.
- 4a. The History of Europe, 1815-1914. For the main subjects of study and list of books, see Honour Course 4d.
- 4b. The History of Great Britain, 1815-1914: a general sketch of the political and social changes of the period with a special study of foreign policy. For list of books, see Honour Course 4e.
- 4c. The Institutions of the modern British Empire: a comparative study. The governments of Great Britain, Canada and the other Dominions, India and the Crown Colonies; the chief problems of the British Commonwealth; a comparison with methods of government in other countries. Books: Lowell, Government of England; Keith, Dominion Home Rule, and Responsible Government in the Dominions; Figgis, The Irish Free State Constitution; Horne, Political System of British India.

HONOUR COURSES

- 1c. The History of Canada: the age of discovery; the French explorers and the fur trade; society and government in New France; the struggle for supremacy of France and Britain; early British rule in Canada; the Loyalist migration and the English-speaking settlements; rebellion leading to political union; the Federation of Canada; the expansion to the Pacific; growth toward nationhood. Books: FISKE, The Discovery of America; 2 volumes; the works of Francis Parkman; Munro, The Crusaders of New, France; Wrong, The Conquest of New France; Egerton, Canada, 1763-1921; Lord Durham's Report (ed. Lucas); Kennedy, The Constitution of Canada, and Documents of the Canadian Constitution; and biographical study from the series, "The Chronicles of Canada", or "The Makers of Canada", especially Dorchester, Sydenham, Macdonald and Laurier.
- 1d. The History of the United States: the colonial period; the American Revolution; the framing of the federal constitution; territorial expansion; the Civil War; the United States as a great power.

Books: Lecky, The American Revolution; Egerton, The American Revolution; Fiske, The American Revolution, 2 volumes; Wrong, Washington and his Comrades in Arms (Chronicles of America); Oliver, Alexander Hamilton; Charnwood, Abraham Lincoln; Wood, Captains in the Civil War (Chronicles of America); Rhodes, History of the Civil War, 1861-1865; Paxson, Recent History of the United States. For students wishing to read extensively are recommended: Sir G. Trevelyan's volumes on The American Revolution; and for the causes and effects of the Civil War, J. F. Rhodes, History of the United States, 1850-1808.

2c. Mediaeval Europe: beginning with the Roman Empire of the 4th century and closing with the development of the monarchies of France and England in the 12th and 13th centuries. The disintegration of the Roman Empire; the barbarian migrations and settlements; Christianity and the rise of the Papacy; the origin and spread of Islam; the Holy Roman Empire and the Papacy; feudalism and the later barbarian invasions; monasticism; the friars; the crusades; the French monarchy; the unification of England; mediaeval trade and the rise of towns; mediaeval civilization.

Books: for outlines, Orton, Outlines of Mediaeval History; Thorndike, Mediaeval Europe; Bryce, Holy Roman Empire; The Cambridge Mediaeval History; Bury, Later Roman Empire; Hodgkin, Italy and her Invaders; Coulton, A Mediaeval Garner; Munro and Sellery, Mediaeval Civilization; and biographies of principal figures.

2d. A short introductory course on the later Middle Ages followed by the Renaissance and the Reformation: from the invasion of Italy by Charles VIII to the Treaty of Westphalia; political aspects of the Renaissance in Italy—Milan, Venice, Florence, the Papal States, Naples; the art of the Renaissance; the Reformation in Germany; the Hapsburg dominions and the empire of Charles V; the rise and decline of the Spanish power; centralization and absolutism in France; the Hapsburg-Valois feud; the Counter-Reformation; the revolt of the Spanish Netherlands; the wars of religion in France; Sweden under the Vasa; the Thirty Years' War; France under Henry IV and Louis XIII; the rise and decline of the Turkish power; political theory from Machiavelli to Grotius.

Books: for the introductory course Davis, Mediaeval Europe and Lodge, Close of the Middle Ages; for the period 1494-1648, Johnson, Europe in the 16th Century; Wakeman, The Ascendancy of France; Lindsay, The Reformation; Batifoll, The Century of the Renaissance in France; Armstrong, Charles V. For reference, the Cambridge Modern History.

2e. British History, 1485-1689. The Tudor system of government; political and diplomatic beginnings of modern English history; the agrarian revolution of the 16th century; the English Reformation; exploration and colonization; relations with France and Spain; the Puritan Revolution, political and religious; the Stuart theory and practice; the Long Parliament and the Civil War; Cromwell and the Commonwealth; the Stuart Restoration; foreign and domestic policies of the last Stuarts; the Revolution of 1689; Ireland under the Tudors and Stuarts; political theories of the period.

Books: Political History of England, volume V (Fisher) and volume VI (Pollard); TREVELYAN, England under the Stuarts; Cambridge Modern History; Seeley, Growth of British Policy; Carlyle, Letters and Speeches of Oliver Cromwell (ed. Firth).

2f. The Constitutional History of England to 1603. Original documents will be used, more especially for the period after 1485. The origins, Anglo-Saxon institutions and Norman feudalism; the 11th and 12th centuries, administrative and judicial centralization, local government, relations of Church and State, the feudal contract; the evolution of Parliament; the legislation of Edward I; the Lancastrian Experiment and the collapse of mediaeval institutions; Tudor government—the Privy Council, the conciliar courts, relations of Crown and Parliament, the ecclesiastical settlement.

Books: Adams and Stephens, Select Documents of English Constitutional History; Stubbs, Select Charters; Tanner, Tudor Constitutional Documents; the Constitutional Histories of Maitland and Adams; Prothero, introduction to Statutes and Constitutional Documents; McIlwain, High Court of Parliament; Baldwin, King's Council.

2g. A general survey of British and European History, 1815-1914. For list of topics see 4d and 4e below.

Books: Trevelyan, British History in the 19th Century; Muir, Short History of the British Commonwealth, vol. ii; Fyffe, History of Modern Europe; Gooch, Modern Europe, 1878-1919; Hazen, Europe since 1815; Lipson, Europe in the Nineteenth Century.

2h. Selected texts in Modern History: a course of study based on selections from the works of leading French or German historians as a preparation for the independent study of History in one of these languages.

Texts for 1924-5: either Michelet, Histoire de France, vol. IX (La Renaissance) or Burckhardt, Cultur der Renaissance in Italien.

3c. Europe, 1763-1815. Political and social conditions in Europe, and especially in France, before 1789; the French philosophers; the failure of enlightened despotism. The beginning of the Revolution in France; the appeal to force; the reforms of the Constituent Assembly; the outbreak of war, the second revolution, and the fall of the throne; the Convention, the Jacobin government, and the Reign of Terror. The failure of the middle-class reaction 1794-99. The advent of Napoleon; the reorganization of France under the Consulate; the path to Empire and the conquest of Europe; Napoleonic statesmanship in Germany and Italy; the Continental System; the war of Liberation and the fall of Napoleon.

Books: Lecky, England in the Eighteenth Century (chapters on France); Tocqueville, France before the Revolution; Young, Travels in France; Sorel, L'Europe et la Révolution Française, vol. i; Acton, Lectures on the French Revolution; Madelin, French Revolution; Aulard, French Revolution; Barthou and Willert, Mirabeau; Madelin, Danton; Vandal, L'Avènement de Bonaparte; lives of Napoleon by Fournier, Rose, and Fisher; Fisher, Bonapartism, and Napoleonic Statesmanship in Germany.

3d. British History, 1689-1815. The relations of England, Scotland and Ireland; the evolution of Cabinet government and of the Whig and Tory parties, with special reference to the work of Walpole, Chatham and the younger Pitt therein; British foreign and colonial policy; the long struggle with France, especially in the field of colonial enterprise; the loss of the American Colonies; society before and during the Industrial Revolution; the Methodis't movement; the effects of the French Revolution on English life and thought.

Books: for outlines, Muir, Short History of the British Commonwealth; Fletcher, Introductory History of England, vol. iii; Trevelyan, England under the Stuarts; Robertson, England under the Hanoverians; Macaulay, History of England and Essays; Lecky, England in the Eighteenth Century; Morley, Walpole and Burke; Williams, Chatham; Holland Rose and Rosebery, Pitt; Trevelyan, Early Life of C. J. Fox.

3e. The Constitutional History of England since 1603: a course based on the following books of documents: Prothero, Constitutional Documents, 1558-1625; Gardiner, Documents of the Puritan Revolution, 1625-1660; Grant Robertson, Select Cases, Statutes, Documents, 1660-1832. The development of the modern Constitution; the struggle for the "rule of law" and the sovereignty of Parliament in the 17th century, with the constitutional experiments of the Cromwellian interregnum; the unions with Scotland and Ireland; the rise of parties and the cabinet system; reform in central and local government in the 19th century; the advent of political democracy; the working of modern British institutions.

Books: the Constitutional Histories of Maitland and Adams; McIlwain, High Court of Parliament; Dicey, Law of the Constitution; Lowell, Government of England; Holdsworth, History of English Law, vol. i; Erskine May, Constitutional History; Anson, Law and Custom of the Constitution.

- 3f. Political Theory (Ancient): a course based on Aristotle's Politics, Plato's Republic, and Maine's Ancient Law. The Politics will be used as a basis for discussion of the following topics: the Greek city state; the nature and end of the state; political rights; the sphere of law; the state and property; the state and education; the Greek conception of democracy.
- 3g. A special subject studied with reference to original authorities. A list of subjects is printed below.
- 4d. The History of Europe, 1815-1914: a study of the national movements of the 19th century and their effect upon international relations. Special attention will be paid to: the settlement of Vienna and the Congress period; the revolutions of 1848; the age of Napoleon III and the foundation of the Third French Republic; the work of Cavour in Italy and of Bismarck in Germany; the growth of German imperialism and the resultant diplomatic upheaval; the modern history of the Near Eastern

and Balkan problems; and the condition of European civilization on the eve of the Great War.

Books: for outlines, A. Phillips, Modern Europe, Lipson, Europe in the Ninetecnth Century; Seignobos, Political History of Contemporary Europe, and Fyffe, History of Modern Europe, vols. ii and iii, continued by Gooch, Modern Europe, 1878-1919, are on a larger scale; Cambridge Modern History, vols. X-XII; Mowat, History of European Diplomacy; for France, Bourgeois, Modern France; for Italy, Bolton King, History of Italian Unity, and Stillman, Union of Italy; for Germany, Robertson, Bismarck, and Dawson, German Empire. An historical atlas is essential for the study of the period.

4e. The History of Great Britain, 1815-1914. The Industrial Revolution and the social history of industrialized England; reform in central and local government; the Benthamite philosophy; Free Trade; the Manchester School; Liberalism; the working class movements, e.g., Chartism and the later Socialism; Trade Unionism; the advent of democracy and its influence on policy and institutions; the history of political parties; the development of British "Imperial" opinion; the Irish question; domestic politics under Gladstone, Disraeli, Salisbury; foreign policy from Castlereagh to Sir Edward Grey.

Books: Trevelyan, British History in the Nineteenth Century; Muir, Short History of the British Commonwealth, vol. ii; Egerton, History of British Foreign Policy; Cambridge History of British Foreign Policy; Dicey, Law and Opinion in England. Biographies: Phillips, Canning; Wallas, Francis Place; Trevelyan, Grey of the Reform Bill, and Bright; Monypenny and Buckle, Disraeli; Morley, Gladstone; Cecil, Salisbury; Strachey, Queen Victoria.

4f. The Constitutional History of Canada from 1759 to the present day: the period of military government and constitutional investigation; the Quebec Act; the new factor—the English-speaking settlers; the Constitutional Act; the struggle for self-government; rebellion, Durham, the Act of Union; parliamentary government; federation; the interpretation and working of the British North America Act; recent developments.

Books: Kennedy, Constitution of Canada, and Documents of Canadian Constitution; Short and Doughty, Canadian Constitutional Documents; Doughty and McArthur, Canadian Constitutional Documents; Keith, War Government in the Dominions; Lefroy, Canadian Constitutional Law.

- 4g. The Institutions of the Modern British Empire: an advanced course on the subjects outlined in 4c.
- 4h. Political Theory (Modern): a course on the development of modern political thought, based on the study of selections from Hobbes, Leviathan, Rousseau, Social Contract, J. S. Mill, Essay on Liberty, and T. H. Green, Principles of Political Obligation.
 - 4i. A Special Subject (continued from the Third Year).

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SPECIAL SUBJECTS

See 3g and 4i. The following subjects, of which one shall be chosen, are offered for 1924-25:

- (1) The Revolutions of 1848. A study of the movements of 1848-9 in France and Germany, to be based as much as possible on original sources, such as: Documents in Postgate, Revolution, and Anderson, Constitutions and Documents, France; for France, L. Blanc, L'Organisation du Travail; histories of the revolution by L.Blanc and Lamartine; Tocqueville, Recollections; Stern, Histoire de la révolution de 1848; Normanby, A Year in France; for Germany, Klein, 1848 Der Vorkampf; Legge, Rhyme and Revolution in Germany; Schurz, Reminiscences, vol. i; Metternich, Mémoires; Laube, Das Erste Deutsche Parlament, 1848-49; Marx, Revolution and Reaction in Germany and Austria.
- (2) Representative Government. The working of representative government in Great Britain, the United States, France, and Switzerland; the principles of the new constitution of India; the theory of representative government; special problems of modern democracy, such as electoral systems, direct government, the influence of political parties, parliamentary procedure, and the form of second chambers. The course will be based on the study of constitutional documents and parliamentary papers.
- (3) Lord Durham's Report on the Affairs of British North America. A study in imperial politics based upon original authorities. Lord Durham's Report (ed. Lucas); Kennedy, Documents of the Canadian Constitution; Egerton and Grant, Canadian Constitutional Development; Lady Durham's Journal; Stuart Reid, Life and Letters of the first Earl of Durham; Fawcett, Life of Molesworth; Molesworth, Selected Speeches; Garnet, Life of Wakefield; Wakefield, The Art of Colonization; The Creevey Papers; Chisholm, Speeches and Public Letters of Joseph Howe; C.W. Robinson, Life of J.B. Robinson; J.B. Robinson, Canada and the Canada Bill.
- (4) The American Revolution. A course based on the following original authorities: Morison, The American Revolution, Sources and Documents; Allen Johnson, Readings in American Constitutional History; Tyler, Literary History of the American Revolution (2 vols.); Wraxall, Historical Memoirs of our own Times; Raymond (Editor), The Winslow Papers; Curwen, Journals and Letters 1775-1784; Burke, Speeches on America.
- (5) The Distribution of Legislative Power in the Federations of the British Empire. A course based on the study of the constitutions in A. P. Newton, Federal Constitutions; of the cases reported in the federal, provincial and state courts, and in the Judicial Committee of the Privy Council; and Lefroy, Canada's Federal System, and Legislative Power in Canada; Clement, Law of the Canadian Constitution (3rd ed. 1916); Moore, The Commonwealth of Australia; Quick, Legislative Powers in Australia.

(6) England at the close of the Middle Ages.

A study of town and country life in fifteenth century England, based as far as possible on contemporary sources including: The Chronicles of London (ed. Kingsford); The Historical Collections of a London Citizen (ed. Gairdner); The Records of the Borough of Leicester (ed. Bateson); The Cely Papers (ed. Malden); The Paston Letters (ed. Gairdner); The Plumpton Correspondence (ed. Stapleton); and The Stonor Letters and Papers (ed. Kingsford).

POLITICAL ECONOMY

| IAMES MAYOR PH D | Professor Emeritus. | | | | |
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| | | | | | |
| | Professor of Economic History. | | | | |
| | Associate Professor of Rural Economics. | | | | |
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| | Lecturer. | | | | |
| | Lecturer. | | | | |
| • | Lecturer. | | | | |
| S. P. Dobbs, B.A | Lecturer. | | | | |
| W. P. M. Kennedy, M.A., Litt.D. | | | | | |
| | Special Lecturer in Mediaeval Economics. | | | | |

- W. S. FERGUSON...... Lecturer in Accounting.
- 1a. Economic Geography. The course attempts in a general outline to estimate the significance of geographic conditions (geological formations, physical features, climate) as factors in the development of modern civilization. Consideration will be given to the inter-relationship between these conditions and the movements of population, the state of the industrial arts, and the concomitant institutional fabric. With this background attention will be paid to the direction, extent and character of modern movements. Books recommended: Newbigin, Modern Geography; Huntington and Williams, Business Geography; Huntington and Cushing, Principles of Human Geography; Colby, Readings in Economic Geography of North America; Smith, J. R., Industrial and Commercial Geography. Two hours a week.
- 1b. Social Science. This course forms an introduction to Social Evolution. The following topics are included: (1) Primitive society: types and stages of culture. (2) The extension of man's power over the forces and materials of nature. (3) The development of tools and machinery: division and organization of labour. (4) The organization of knowledge; the development of institutions; historical outline of education, law, government. Books recommended: Marett, Anthropology; Lowie, Primitive Society; Goldenweiser, Ancient Civilization; Müller-Lyer, History of Social Development; Lewinski, Origin of Property; MacIver, Community.

- 1c. Economic Geography. The course deals with the significance of geographic characteristics in the development of modern civilization. Books recommended: Huntington and Cushing, Principles of Human Geography; Huntington and Williams, Business Geography; Newbigin, Modern Geography.
- 2a. Principles of Economics. The following books will be found useful: Taussig, Principles of Economics; Pierson, Principles of Economics; Marshall, Principles of Economics; Mill, Principles of Political Economy; Adam Smith, Wealth of Nations; Wicksteed, Common Sense of Political Economy; Cassel, Nature and Necessity of Interest; Smart, Distribution of Income; Carver, Distribution of Wealth; Henderson, Supply and Demand; Hobson, Evolution of Modern Capitalism; Layton, Introduction to the Study of Prices. Three hours a week.
- 2b. Economic History. British Economic History from the middle ages to the present day, with special reference to the period from 1760 onwards; and the Economic History of the United States. Books recommended: Ashley, Economic Organization of England; Rees, Fiscal and Financial History of England, 1815-1918; Knowles, Industrial and Commercial Revolutions in Great Britain during the 19th Century; Fay, Life and Labour in the 19th Century; Buxton, Finance and Politics; Prothero, English Farming Past and Present; Jackman, Transportation in Modern England; Andreades, History of the Bank of England; Dicey, Law and Opinion in England; Webb, History of Trade Unionism; Bland, Brown and Tawney, English Economic History, Select Documents; Adam Smith, Wealth of Nations (Book IV); Callender, Economic History of the United States; Lippincott, Economic Development of the United States; Rabbeno, American Commercial Policy. Three hours a week.
- 2c. Structure of Modern Industry and Commerce. (1) Distribution of population and natural resources. Localization of industry. (2) Survey of the economic field (production, distribution, transport and exchange). Relation between industry and commerce. (3) Characteristics of modern industry. Economies of large-scale organization. Limiting factors in agriculture. (4) Markets and marketing. Producers' co-operation. (5) Competition and combination. The trust movement. Public ownership. Consumers' co-operation. Books recommended: Taussig, Principles of Economics; Marshall, Industry and Trade; Levy, Monopoly and Competition; Fay, Co-operation at Home and Abroad. Three hours a week.
- 2d. Economic History and Theory with special reference to the eighteenth and nineteenth centuries. Books recommended for study: Clay, Economics for the General Reader; GIBBINS, Industry in England; Toynbee, Industrial Revolution; Webb, History of Trade Unionism in England; Hobson, Evolution of Modern Capitalism; ADAM SMITH, Wealth of Nations;

BLAND, BROWN AND TAWNEY, English Economic History, Select Documents; DICKENS, Hard Times; DISRAELI, Sybil. One hour a week.

2e. General Introduction to the Study of Economics. For pass students. Elements of Economic Theory, Sketch of Economic History, and of important social changes and movements. Gide, *Political Economy*. Two hours a week.

3a. Labour Problems. The evolution of trade union organizations, types and methods. The problems of industrial relationship and the various schemes put forward for the attainment of industrial harmony or peace. Wages and other forms of payment in relation to productivity. Books recommended: Webb, History of Trade Unionism, and Industrial Democracy; Commons, History of Labour in the U.S., and Principles of Labour Legislation; Cole, The World of Labour, and Introduction to Trade Unionism; Hoxie, Trade Unionism in the U.S.; Bulletins of the U.S. Bureau of Labour Statistics, Bulletins of the International Labour Office, Board of Trade Labour Gazette (England), The Labour Gazette (Canada). One hour a week.

3b. Money. Credit and Prices. Changes in general prices: the gold standard: function of the bank: inflation of currency and credit; effects on the industrial system; and on the distribution on income; the trade cycle: proposals for currency reform: the foreign exchanges: external borrowing in peace and war; settlement of international indebtedness: payment of war indemnities. Books recommended: Todd, The Mechanism of Exchange; Marshall, Money, Credit and Commerce; Kemmerer, Money and Prices; FISHER, The Purchasing Power of Money; and Stabilizing the Dollar; DE LAUNAY, The World's Gold; LEHFELDT, Gold and the Witwatersrand; Withers, The Meaning of Money; Palgrave, Bank Rate and the Money Market; LAVINGTON, The English Capital Market; and The Trade Cycle; CONANT, Modern Banks of Issue; Cassel, The World's Monetary Problems; and Money and Foreign Exchange after 1914; KEYNES, Economic Consequences of the Peace; and Monetary Reform; HAWTREY, Monetary Reconstruction; BRECKINRIDGE, A History of Canadian Banking; Ross, A History of the Canadian Bank of Commerce; Johnson, The Canadian Banking System; WHITE, The Story of Canada's War Finance; Royal Bank of Canada, Financing Foreign Trade; The Bank Act; Report of the House of Commons Committee on Banking and Commerce (1923). Three hours a week

3c. Statistics. General introduction to the use of statistics: methods of collection, tabulation, graphic presentation, analysis, and application to various types of economic problems. Survey of some of the most useful sources of statistical information. A considerable part of the course is devoted to laboratory work, under supervision, in which statistical methods are applied to the study of current questions. Text-books and works of reference: Secrist, Manual of Statistical Methods; King, Elements of Statistical Method; Bowley, Introductory Manual of Statistics, and Elements

of Statistics; Meitzen, History, Theory and Technique of Statistics (supp. vol. to Annals of American Academy of Political and Social Science, Philadelphia, 1891); W. C. MITCHELL, Index Numbers of Wholesale Prices in the United States and Foreign Countries (Bulletin 284 of U.S. Bureau of Labour Statistics, 1921); Fisher, Making of Index Numbers; Block, Traité Theorique et Pratique de Statistique; Georg von Mayr, Statistik und Gesellschaftslehre; Census Reports of Canada, Great Britain, and U.S.A.; Canada Year Book; Statesman's Year Book; Publications of Royal Statistical Society; Publications of American Statistical Association; Labour Gazette (Ottawa); and other publications to be indicated from time to time. Three hours a week.

- 3d. Public Finance and Administration. Principles and incidence of taxation; national and local finance; public debts and their redemption; the public domain; revenue systems of modern states; methods of central and local administration. Books recommended: Seligman, The Incidence of Taxation; Seligman, Progressive Taxation (American Econ. Assn., 1909); Bastable, Public Finance; Leroy Beaulieu, Science des Finances, Livre 11, Chaps. 4, 5, 9, 10; Plehn, Public Finance; Cohn, The Science of Finance; Seligman, Essays on Taxation; J. W. Grice, National and Local Finance; Seligman, The Income Tax; Kennan, Income Taxation; Plehn, The Property Tax in California; Mayor, Taxation of Banks in Canada, Taxation of Corporations in Canada (State and Local Taxation Conference (1908)); Lowell, The Government of England; Redlich and Hurst, Local Government in England; Vineberg, Dominion and Provincial Taxation in Canada; Villard and Willoughby, Canadian Budgetary System. Three hours a week.
- 3e. Economic Theory. For pass students. Books recommended: Adam Smith, Wealth of Nations; Malthus, On Population; Ricardo, Political Economy; Marx and Engels, The Communist Manifesto; Gide and Rist, History of Economic Doctrines; Davenport, Value and Distribution; Levinsky, The Founders of Political Economy; Spargo, Socialism. Three hours a week.
- 3f. Economic Theory. An introductory course for Honour students in Philosophy. Two hours a week.
- 4a. Advanced Economic Theory. A course dealing with the evolution of economic thought through the principal schools from the Physiocrats to the present, and giving special attention to the criticism of current theories of value, interest, rent, and wages. Books recommended: ADAM SMITH, Wealth of Nations; Malthus, Essay on Population; RICARDO, Principles of Political Economy; J. S. Mill, Principles of Political Economy; Mark, Capital; Böhm-Bawerk, Capital and Interest, and The Positive Theory of Capital; Marshall, Principles of Economics, and Industry and Trade; Cannan, Theories of Production and Distribution; Hobson, Economics of Distribution; J. B. Clark, Distribution of Wealth; Dalton, Inequalities of

Income; HANEY, History of Economic Thought; GIDE AND RIST, History of Economic Doctrines. Three hours a week.

- 4b. Transportation. Railway accounts and rates; principles of rate making as established by the railways, the regulative tribunals and the courts; railway policy in Canada and the other chief countries; railway rate structures; organization of ocean commerce; ocean freight-rates; shipping conferences and their results; relations of ocean and land transportation interests. Books recommended: Brown, Transportation Rates and their Regulation; Johnson and Van Metre, Principles of Railroad Transportation; Acworth, Elements of Railway Economics; Knoop, Outlines of Railway Economics; Johnson and Huebner, Principles of Ocean Transportation; MacGibbon, Railway Rates and the Canadian Railway Commission. Two hours a week.
- 4c. Corporation Finance. Economic services of corporations; capitalization; detailed study of stocks and bonds; financing of extensions and improvements; management of incomes and reserves; dividend policy; insolvency; receiverships; reorganizations. Books recommended: Hartley Withers, Stocks and Shares; Mead, Corporation Finance; Greene, Corporation Finance; Convington, Financing an Enterprise; Lough, Business Finance; Daggett, Railroad Reorganizations; Dewing, Corporate Promotions and Reorganizations; Gerstenberg, Materials of Corporation Finance. Two hours a week.
- 4d. Economic History of Canada and the United States. The course is an attempt to estimate the significance of economic factors in the growth of western civilization on the North American continent. Three hours a week.
- 4e. Political Theory. A study of the nature, functions, institutions, and limits of the modern state, led up to by a critical review of political thought from Machiavelli and Grotius to the present day. Books recommended: Hobbes, Leviathan; Locke, On Civil Government; Rousseau, Social Contract; Sidgwick, Elements of Politics; Ritchie, Principles of State Interference; Seeley, Introduction to Political Science; Mackenzie, Introduction to Social Philosophy; Barker, Political Thought of Plato and Aristotle, and Political Thought from Spencer to the Present Day; Laski, Studies in the Problems of Sovereignty, and Authority in the Modern State; Duguit, The Law and the State; Bryce, Modern Democracies. Two hours a week.
- 4f. Rural Economics. A study of rural interests from the standpoint of economic principles; the economy of land, labour and capital in agriculture; the problems of ownership and tenancy; rural credits; transportation in its vital relation to agriculture; the problems of marketing farm products; principles underlying the proper adjustment of rural and urban industries; rural social economy. Books recommended: Publications of the International Institute of Agriculture; reports of government and

educational institutions dealing with important phases and problems of agriculture in Canada, England and United States; Nourse, Agricultural Economics; FAY, Cooperation at Home and Abroad; DUNCAN, Marketing, its Problems and Methods; CHERINGTON, The Elements of Marketing; HERRICK, Rural Credits; WALLACE, Agricultural Prices; Proceedings of the American Country Life Conference. Two hours a week.

- 4g. Business Administration. Special lectures by experts on aspects and methods of business administration. The subjects will be arranged under the following heads: (1) financial control, (2) home and export marketing, (3) personnel administration. One hour a week.
- 4h. A General Sketch of Economic History. For pass students. Books recommended: ASHLEY, Economic Organization of England; Knowles, Industrial and Commercial Revolutions in Great Britain during the 19th Century; FAY, Life and Labour in the 19th Century; BOGART, Economic History of the United States. Three hours a week.

4i. Special Subject:-

The special subject for the year 1924-25 is the study of the fur trade on the North American continent and its effects on civilization. Attention will be given to the causes, extent, and character of its development. Special consideration will be given to technical demands of the trade, the organization and marketing peculiar to the various stages of its history. Further, an attempt will be made to estimate the effects of the trade on the development of economic institutions. The course will be conducted in such a way as to require independent work on the part of each student as a contribution to suggested problems.

LAW

3a. History of English Law. Anglo-Saxon Customs and Dooms. The Norman century: feudal tenures and Church Courts. Foundation of the Common Law: writs and jury-trial. Legislation of Edward I. Expansion of the Common Law: entails; contracts and torts. Equity. Development by legislation and decisions. Struggle between Chancery and Common Law Courts in the reign of James I. Reform by Equity. Legislation and Common Law before the Reform Bill period. Rigidity of the Equity system. Progress by legislation in England and Ontario. For reference: MAITLAND AND MONTAGUE, A Sketch of English Legal History; POLLOCK AND MAITLAND, History of English Law (Book I); STORRY DEANS, Student's Legal History; JENKS, Short History of English Law. One hour a week.

- 3b. Roman Law. 1. History: The early legal system and procedure by legis actiones. The Twelve Tables statute. Republican law: development by jus civile of the jurisconsults and by the praetor's edict; procedure by formula. The Principate: equity, jus gentium or jus naturale; development of rigidity in the law. Absolute Monarchy: codification by imperial legislation; Justinian's system. 2. Elements of Private Law: law of persons, family, and slaves. Law of inheritance, legacies and trust-bequests. I aw of property. Obligationes: contract and delict. Text-books: Sohm, Institutes of Roman Law (Ledlie's translation); Sandars or Moyle, Justinian's Institutes. For general reading and reference: Gaius, Institutes; Girard, Manuel, or Roby, Roman Private Law; chapter 44 of Gibbon, Decline and Fall; and the Article on "Roman Law" in last edition of Encyclopædia Britannica, or Muirhead, Historical Introduction to the Private Law of Rome. Two hours a week.
- 3c. A course in English Constitutional Law, in which the distinctive features of the English Constitution, the Rule of Law and the Sovereignty of Parliament, the two Houses of Parliament, the Cabinet and the relation to the Crown and Parliament, the prerogative, the conventions, the Courts, and the position of the subject under English law, are the principal topics. Students are recommended to read: DICEY, Law of the Constitution; Anson, Law and Custom of the Constitution; Thomas, Leading Constitutional Cases; Low, Governance of England; Marriott, English Political Institutions; RIDGE, Constitutional Law. One hour a week, Michaelmas term.
- 3d. A course in Colonial Constitutional Law, in which the lectures deal with the various forms of colonial government with special reference to the self-governing colonies and to current problems. Students are recommended to read: Todd, Parliamentary Government in the Colonies (to page 318); "Introduction" to Dicey, Law of the Constitution (8th ed., 1915), pp. xiv to xxxvii; c. 2, pp. 98-116; and either Tarring, Law in Relation to the Colonies; Jenkyns, British Rule and Jurisdiction beyond the Seas; or the Section on Colonies and Dependencies in Halsbury, Laws of England. One hour a week, Easter term.
- 4a. A course in Canadian Constitutional Law, with special reference to the distribution of legislative and executive powers between the Dominion and the Provinces. Text-books: Clement, Law of the Canadian Constitution (3rd ed., 1916), Part II; Lefroy, Short Treatise on Canadian Constitutional Law. For reference: Lefroy, Legislative Power in Canada; Lefroy, Leading Cases, and Reported Cases to which the student may be referred by lecturer.
- 4b. A course in Federal Institutions. The lectures deal with the essential features of federal government in a comparative view of the leading federal States. Special attention is given to the constitutions of Canada, Australia, South Africa, the United States, and Switzerland. Books recommended for reading: Kennedy, Law and Development of the Canadian Constitution; Bryce, American Commonwealth (last edition); Wilson, Congressional

Government; TAFT, Our Chief Magistrate; HAINES, The American Doctrine of Judicial Supremacy; BALDWIN, The American Judiciary; MOORE, The Commonwealth of Australia (second edition); QUICK, Legislative Power in Australia; VINCENT, The Government of Switzerland; BROOKS, The Government and Politics of Switzerland; HIGHT AND BAMFORD, The Constitutional History and Law of New Zealand. One hour a week.

4c. Jurisprudence. Scope of the science; definition and analysis of law and of rights; solution of disputes by inflexible rules or by juridical determination. Classification of legal rights and the departments of law. Sources of law and the juridical development of law. Jurisprudence of legal personality; family; succession; trusts; property; contract; delict or tort; evidence and procedure; public rights. Application of the methods of Jurisprudence to International Law. Text-books: Holland, Elements of Jurisprudence; Maine, Ancient Law, with Pollock's notes. For general reading and reference: Salmond, Jurisprudence; Maine, Lectures XII, XIII, in Early History of Institutions; Pollock, First Book of Jurisprudence; and Bryce, Lectures on History and Jurisprudence. Two hours a week.

4d. International Law: 1. The nature, history and sources of international law. 2. The subjects of international law: the notion of sovereignty and the classification of states; the origin, continuity and extinction of states; the independence of states, self-preservation and intervention; the equality of states, the system of Europe and the Monroe Doctrine. 3. The objects of international law: territorial sovereignty and state territory; modes of acquiring territory; territorial, boundary and international waters; the open sea; jurisdiction; nationality and alienage. 4. International intercourse; international agents; treaties; negotiation, mediation and arbitration; forcible measures short of war. 5. War: general notions; immediate legal effect; enemy character of persons; rule of nonintercourse; laws of war with regard to enemy persons; enemy character of property and laws of war with regard to property; military occupation; enemy merchantmen, their crews and cargoes; prize courts; instruments and methods of naval warfare; non-hostile intercourse of belligerents. 6. Neutrality: nature and history; violation and cessation; neutralization; the obligations of a neutral state; the duties of prevention, abstention and impartiality; the rights of a neutral state; inviolability of territory, right of asylum, right of commerce; nationals of neutral state subject to state law and to rights of belligerent states; visit and search; contraband of war; blockade; unneutral service. 7. For reference: (1) general treatises: HALL, Westlake, Lawrence, Oppenheim; (2) cases and documents: Moore, COBBETT, SCOTT, WHITTUCK, LAWRENCE, EVANS; (3) prize court decisions, official documents relating to the late war and Covenant of the League of Nations. One hour a week.

4e. Commercial Law: General principles of the law of contracts. Rules relating to parties to contract; agency, partnership and companies. General

riew of the following: sale of goods, negotiable instruments, powers of panks, relation of banker and customer, insurance, carriage of goods, suretyship and guarantee, bills of sale and chattel mortgages, bankruptcy and nsolvency. Text-book: STEVENS, Elements of Mercantile Law (6 ed., 1920, by H. Jacobs). A larger book of a general character is SMITH, Mercantile Law. The lecturer will, if desired, refer students to special works on any of the foregoing topics. One hour a week.

4f. Commercial Law: A second course, an extension of Course 8.

PHILOSOPHY

| University of Toronto: J. G. Hume, A.M., Ph.D |
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| University College: F. Tracy, B.A., Ph.D |
| VICTORIA COLLEGE: W. B. LANE, M.A., Ph.D |
| TRINITY COLLEGE: REV. G. F. KINGSTON, M.A., B.D., Ph.D., Associate Professor of Ethics. |
| St. Michael's College: Rev. D. Cushing, LL.D |

PASS COURSES

2a. An Introductory Course in Philosophy. (i) General problems of philosophy and principles of logic. Two hours a week. (ii) Introduction to Ethics. One hour a week.

3a. Social Ethics. (1) Theory of morals. The subject matter and methods of ethics; study of the chief factors in the ethical problem;

critical examination of typical solutions. (2) History of moral ideas and customs in early society, with especial reference to Greek ethics, including (a) the moral and political ideals of Plato and Aristotle; (b) the later Greek systems (Stoic and Epicurean) and their influence on world civilization; (c) comparison of Greek and early Christian ideals and influences. (3) The study of modern social conditions and problems in their ethical aspects. Prescribed texts: Seth, Ethical Principles; Selections from Plato, Republic; Aristotle, Nicomachean Ethics and Politics; and from Stoic and Epicurean writers, as contained in Bakewell, Source Book in Ancient Philosophy. References: Dewey and Tufts, Ethics; Drake, Problems of Conduct; Sidgwick, History of Ethics; Rogers, Short History of Ethics; Elwood, Sociology and Modern Social Problems; Towne, Social Problems. Three hours a week.

- 3b. History of Philosophy. History of the Problems of Ancient and Mediæval Philosophy. Texts: Plato, Republic; Aristotle, Ethics; works of reference as prescribed in the course of instruction. Three hours a week.
- 4a. Modern Ethics. The lectures will be (a) Historical, tracing the rise and development of the leading problems of ethics, and the formation of the chief schools and systems, Hedonist, Intuitionist, etc.; (b) Expository and critical. The following texts will be studied in the class, and their doctrines examined: Hobbes, Leviathan; Hume, Enquiry concerning the Principles of Morals, with Appendices; J. S. Mill, Utilitarianism; Spencer, Data of Ethics; J. G. Hume, Young's Ethics of Freedom; Green, Prolegomena to Ethics. Three hours a week.
- 4b. History of Philosophy. History of the problems of Modern Philosophy with special reference to British Philosophy. References: Seth, English Philosophers and Philosophical Schools; Calkins, The Persistent Problems of Philosophy; Cushman, History of Philosophy, Vol. II; Rand, Classical Philosophers; A. D. Lindsay, Kant; M. M. Waddington, The Development of British Thought. Three hours a week.

Honour Courses

- 1a. Ethics. Introductory Course. Studies in character, conduct and moral values. Prescribed text: Johnson, An Introduction to Ethics. Two hours a week.
- 2b. Ethics. Elementary Course. Outline study of the subject matter and method of Ethics, with its leading problems and schools. Ethical development among the Hebrews, Greeks and Romans. Prescribed texts: MacKenzie, Manual of Ethics; Selections from the Old Testament; Plato, Republic; Aristotle, Nicomachean Ethics; Cicero, De Finibus, and from other Greek and Roman writers, as given in Bakewell, Source Book in Ancient Philosophy. References: Rogers, Short History of

- 'thics, Muirhead, Elements of Ethics, Seth, Ethical Principles, Dewey nd Tufts, Ethics, Watson, Hedonistic Theories, Smith, The Moral lafe of the Hebrew People Two hours a week
- 2c Logic Introductory Course Development of Logic among the Freeks Texts Plato, Theasteins, Republic, Aristotle, Organica Selections), Creighton, Introductory Logic One hour a week
- 2d History of Philosophy Texts Locke, Essay on the Human Inderstanding Berkeley, Principles of Knowledge Two hours a week
- 3c Ethics English Ethics from Hobbes to Spencer, with special itention to the Ethics of Naturalism Exposition and criticism of Ideonism, Utilitarianism, and Evolutionism, in relation to the general rend of English thought and life in the period covered Prescribed texts 10sdbs_Levalhos, Huse, Engency concerning the Principles of Morals, VILL, Utilitarianism, Stemers, Data of Ethics, together with other elections, from RAND, Classical Moralist, or Skelly-Blood, British noralists References Aldres, History of English Utiliberianism, Warnow, Hodonstein Theories, Solks, The Ethics of Naturalism, Martineau, Proper of Ethical Theory, Rashdall, Theory of Good and Evi Two hours I week
- 3d History of Philosophy Modern Philosophy (a) The rationalistic ichool, selections from Des-Cartes, Spinoza, Lebnitz (b) The empirical ichool, selections from Hume, Mill, Spencer, James Two hours a week
- Be Logic (a) Development of Logic from Aristotle to Bacon (b)
 Empirical Logic and Scientific Methods Texts Bacon, Novium Organium
 and Advancement of Learning, J S Mill, A System of Logic, Hornouse,
 Theory of Knowledge Two hours a week
- 4c Ethics Rationalism and Idealism Exposition and criticism of the Ethics of Kart and T H Green Discussion of selected problems in Ethics Prescribed texts K.NAT, Groundwork of the Metophysic of Ethics, and Critique of Practical Resson, Gessen, Prolegomen to Ethics References DAIRO, The Critical Philosophy of Kent, Watsons, The Philosophy of Kent Spilossed Two Durns a week.
- dd Social Ethres (1) The evolution of society, philosophy of social rogress, its nature and the forces directing it. (2) Theories of the mutual elation of the state and the individual, grounds of political obligation 3) Modern social conditions and problems. References. Grages, Principles of Political Obligation, Tono, Theories of Social Progress, Park IND BURGESS, Intriduction to the Scenne of Socialopy, Euroco, Sociolopy and Modern Social Problems, OGG, Social Progress in Contemporary Sureep. Two hours a week.
- 4e History of Philosophy Kant and his successors Text KANT, Critique of Pure Reason Two hours a week

- 4f Logic The development of modern logic One hour a week
- 4g Review of current movements with special reference to methods and principles Two hours a week
- 5 Selected texts Students who elect this option will be required to study one or more selected texts approved by the Department. The work is done under the direction of the staff, but formal instruction is not necessarily provided.

ST MICHAEL'S COLLEGE

PASS COTTREES

- 2e Logic The standpoint and problem of Logic, important stages in the development of Logic, the syllogism, the problem of induction, assumptions of induction, the laws of thought, types of judgment, nature of inference, science and philosophy, philosophy as the interpretation of the sciences.
- pretation of the sciences δf (1) General Philosophy Modern physical and chemical views in relation to the conception of matter and form, the uniformity of the Universe and the orderliness of Nature, proofs of the existence of God, the argument from design Two hours a week
- 3f (2) Psychology An introductory course A study of common human experiences presenting the main problems of Psychology, various fields of consciousness and methods of study normal, human, adult psychology Prescribed texts Mahren, Psychology, Part I, Manuals by RESESS, DIEMPAY and MENGTER
- 3g (1) An introduction to Social Philosophy Natural Law, Rights and Duties The Family The State
- 8g (2) An introduction to Psychology Its application to the Study of Social Problems
- 3k General Ethics An analysis of the idea of the Good with a criticism of the various theories, the problem of Duty, the Virtues, Natural Law, Rights Prescribed texts Cronin, Science of Ethics, Vol I, MacDonald, Princeples of Morality, RICKABY, Moral Philosophy Three hours a week
- 4g (1) General Philosophy The cell and cellular life, Bio- and Abiogeness, development, vegetable and animal kingdoms, vitalism, Geology and early man, races of mankind, transformism, the origin of man Two hours a week
- 4g (2) Metaphysucs The nature and need of Metaphysucs, the notion of Being, essence and existence, unity, truth, and goodness of Being, the possibilities of Being, the finite and infinite in Being, substance and accident, personality, causality, relation, space, and time Two hours a week

- 4g (3) Psychology A study of the nature of the human mind, the mind-body relation, psychical research Texts MAHER, Psychology, Part II, BARRET, Psychical Research, McDougall, Mind and Body Two hours a week
 - 4h Same as 3g
- 4s Social Ethics A course of lectures on Social Reconstruction Theory of Social Reform—Socialism and Labour Movement as types of reform activity Readings RYAN, Social Reconstruction, RYAN AND HUSSINN, The Church and Labour, RYAN AND MILLER, The Church and State, McLEAN, The Morality of the Strike

HONOUR COURSES

- 16 Genetic Psychology Growth and Development Methods of Learning Experience Education Two hours a week
- 2f Introduction to Philosophy Prescribed texts M DE WULF, History of Medianul Philosophy, PLATO, Republic, Aristotle, Politics, Cicero, De Fundus, Encyclopedia articles Three hours a week during the Michaelmas term
- 2g . An outline of Greek philosophic thought $\;$. Three hours a week during the Easter term
- 2h Logue The standpoint and problem of Logic, important stages in the development of Logic, the syllogism, the problem of induction, assumptions of induction, the laws of thought, types of judgment, nature of inference, science and philosophy, philosophy as the interpretation of the sciences Prescribed texts [OSCANQUET, Estantials of Logic, JONCI, Principles of Logic, COSFEN, Science of Logic, BUTCHER, Arbeits of Greek Gensus, Essay on the susty of Logicing But College.
- 2s Seminar in Logic Special problems arising from the reading of NEWMAN'S Grammar of Assent. ARISTOTIE'S Organon. One hour a week
- 2j Psychology An introductory course A study of common human experiences presenting the main problems of Psychology, various fields of consciousness and methods of study, normal, human, adult psychology Prescribed texts Manex, Psychology, Part I, Manuals by Bresse, Dubraky and Musclies Two hours a week.
- 2k Social Psychology Behaviour and action, theories of action. Reference W McDougall, Social Psychology One hour a week.
- 24 General Ethics An analysis of the idea of the Good, with actiticism of the various theories, the problem of Duty, the Virtues, the Natural Law, Rights Prescribed texts Chounn, Science of Ellins, Vol. 1, McDONALD, Principles of Morality, Rickary, Agussas Elliscus, Ross, Christians Elliscus Two hours a week

- 3s General Philosophy Modern chemical and physical views in relation to the conception of Matter and Form, the uniformity of the Universe and the orderliness of Nature, proofs of the existence of God, the argument from design Two hours a week
- 39 Logic The problems of Epistemology, scepticism, positivism, dogmatism, exposition and criticism of each, knowledge and the external world, critical study of Descartes, Locke, Hume, Berkeley, Kant from this wiewpoint, the criteria of valid knowledge One hour a week
- 3k Seminar in Logic Discussion of the problems arising from the reading of Berkeley, Principles of Knowledge, Essay on the Human Understanding One hour a week
- 3l Metaphysics The nature and need of Metaphysics, the notion of Being, essence and evistence, unity, truth, and goodness of Being, the possibilities of Being, the finite and infinite in Being, substance and accident, personality, causality, relation, space and time Two hours a week
- 3m Industrial Ethics A course of lectures on the problems of distributive justice, natural justice and private property, rent, interest, profits, wages, the guild system, the morality of the strike, the Church and Labour, the Church and the State, the Social Mission of Charrity Readings Cakutus, Addiseave Political Theory in the West, CAUTRE, The Distribution of Wealth, J A RYAN, Paiributine Justice, HERNY GEORGE, Propress and Poserty, HIGUITE-TRAN, Socialms—Promise or Mesical, RYAN, The Liveng Wage, PENTY, A Guildenion's Interprelation of History, BRILOC. The Servale State
- 3n Seminar in Social Ethics Selected readings from Plato, Aristotle and St. Thomas
 - 30 History of Mediæval Philosophy Two hours a week
- 4f General Philosophy The cell and cellular life, Bio- and Abiogenesis, development, vegetable and animal kingdoms, vitalism, Geology and early man, races of mankind, transformism, the origin of man Two hours a week
- 4k Epistemology An investigation of the grounds of Certitude with special reference to HUME, KANT and J S MILL One hour a week during the Michaelmas term
- 4l Contemporary Thought Bergson, Croce, and British and American realists One hour a week during the Easter term
- 4m Psychology A study of the nature of the human mind, the mind-body relation, psychical research Prescribed texts MARER, Psychology Part II, Readings BARRETT, Psychologia Research, McDougall, Mone and Body Two hours a week
- 4n Seminar in Psychology The History of Psychology References Mergere, The Origin of Modern Psychology, Brett, History of Psychology

- 40 Social Ethics A study of the social thought of the nineteenth century as reflected in the writings of MILL, BENTHAM, CARLYLE, NEWMAN, RUSKIN, HUXLEY, SPENCER, and T H GREEN.
 - 4p History of Modern Philosophy Two hours a week
- 4g. Theodicy. Theories about a Supreme Being, his existence demonstrable, knowledge attainable by reason concerning God and His attributes. Text. Sansayversino and Ziduara, Theologia Natisrahis, Topical Studies. ST. TROMAS, I. Comber Genitales, Garginot-Loranori, Dieuson existence et su nature, Ward, Philosophy of Thesism. Two hours a work.
- 4r A dissertation on some selected topic in Philosophy to be chosen by the student and approved by the department on or before November 1

PSYCHOLOGY DEPARTMENT

1 Abnormal Psychology Problem of the feeblemunded, school-life, adult life, intelligence tests as applied to children and their results, feeblemunded and their relation to society, relation of Psychiatry to Psychology, drugs and their effect, heredity as a factor in anaenty, general outline of diseases of the mind, treatment of mental diseases in general, results, duty of the state as a factor, cause of the increase of emital disease.

PSYCHOLOGY

UNIVERSITY OF TORONTO

J W Bridges, AM, Ph D
Associate Professor
E A Bott, BA
Associate Professor and Director of Psychological

Laboratory
Miss K M Banham, B Sc., M A
Lecturer

S N F CHANT, B A Class Assistant

ST MICHAEL'S COLLEGE

REV W J ROACH, B A Professor V A. McDonough M B Lecturer

PASS COTTESES

- 2a Elementary Psychology A course in fundamentals, lectures and demonstrations exercises (2f) Three hours a week
- 2b A survey of the field of psychology for students of the Extension Department Special reference to problems of applied psychology Two hours a week
- 2c Introductory Course Two hours a week
- 3s Principles and application of experimental psychology, lectures and laboratory (3f) Three hours a week

4a Abnormal Psychology, abnormal mental phenomena and their relation to the normal, the psychology of mental disease and the psychopathology of everyday life, lectures and demonstrations Three hours a week

HONOUR COURSES

- 2d Introduction to psychology, laboratory courses (2f, 2h) Three hours a week
- 3b Methods of psychological analysis, historical and critical. Three hours a week
- 3c Analysis and measurement of processes, lectures with laboratory (3g) Three hours a week
- 4b Abnormal Psychology, abnormal mental phenomena and their relation to the normal, the psychology of mental disease and the psychopathology of everyday life, lectures, special readings and reports Three hours a week
- 4c The psychology of intelligence, character and temperament, theories, method of evaluation, lectures with laboratory (4d) Three hours a week

Courses in the Faculty of Medicine

3d Special psychology (Six year course) Fifteen hours

Note —The courses for students taking the Psychiatrical Option are 20, 30, 4a, and 4e

COURSES IN THE DEPARTMENT OF SOCIAL SERVICE

- 1a General Psychology One hour a week
- 2ε Social and applied psychology Two hours a week

LABORATORY COURSES

- 2f Statistical exercises
- 2g Elementary experiments on sensation
 Two hours a week
- 2h Experimental technique
- 3e Practical laboratory course Two hours a week
- 3f General experimental course Two hours a week
- $3g\,$ Higher processes and psychological measurements. Two hours a week
 - 4d Clinical psychology Two hours a week
- 4s Selected laboratory problems for advanced students

MATHEMATICS

Professor Emeritus ALFRED BAKER, M A . LL D A T DELURY, M A Professor M A MACKENZIE, M A Professor J C FIELDS, BA, PHD, FRS Professor S BEATTY, PH D Associate Professor I R POUNDER, M A Assistant Professor I L SYNGE, M A Assistant Professor D A F ROBINSON, M A Substitute Lecturer A F C STEVENSON, B A Lecturer MISS M E G WADDELL, M A Instructor Fellow R G ARCHIBALD, B A MISS C I LISTER, B A Fellow Fellow MISS G M P TAYLOR, B A

PASS COURSES

- 1a Algebra Simple equations of one, two and three unknown quantities, quadratic equations of one and two unknown quantities, elementary treatment of variation, proportion and progressions, interest forms and annuities Text-book DLURY, Intermediate Algebra One hour a week
- 1b Analytical Geometry A course in elementary analytical geometry of two dimensions, establishing the more important properties of the conic sections Text-hook BAKER, Analytical Geometry for Beginners One hour a week
- 1c Plane Trigonometry Trigonometrical ratios with their relations to one another sines, etc, of the sum and difference of angles, with deduced formulas, solution of triangles, expressions for the area of triangles, radiu of circumscribed, inscribed and escribed circles Text-book HALL AND
- KNIGHT, Elementary Trisonometry One hour a week

 1d Algebra and Analytical Geometry A review of permutations and
 combinations and a study of limits and series A study of the conic
 sections and a treatment of tailvents in general Three hours a week
- 2a Algebra A course in limits and infinite series, serving as an introduction to the calculus. One hour and a half a week
- 2b Analytical Geometry A review and extension of the earlier course in two dimensions, with special attention to the graphs of functions, and an elementary course in three dimensions treating of the plane, the line, the sphere and the conicoids One hour and a half a week
- 3a Differential and Integral Calculus The elementary theory and applications Three hours a week
 - 3b History of Mathematics The earlier period One half hour a week
- 3s Differential and Integral Calculus An extension of course 2a designed to enable students to apply the Calculus to problems arising in Economics Three hours a week

- in the Third Year, with an elementary course in differential equations One hour a week
- 4b Geometry A course in the modern methods of treating pure geometry Two hours a week
 - 4c History of Mathematics The later period One half hour a week
 - 4m Mathematics of Statistics Three bours a week

HONOUR COURSES

- Le Algebra Limits, infinite series with a special study of the binomial, exponential and logarithmic series, continued fractions, elementary numbertheorems and determinants Text-books HALL AND KNIGHT, Higher Algebra, C Smith, Treatise on Algebra, Chrystal, Algebra Two hours a week
 - 1f Introduction to Analysis Two hours a week
- 1g Analytical Geometry An advanced course Text-book C SMITE. Consc Sectsons Two hours a week
- 1h Spherical Trigonometry Text-book Todeunter and Leatham, Spherical Trigonometry One half hour a week
- 1s Analytical Trigonometry De Moivre's Theorem and a study of the more important trigonometrical infinite series and infinite products. Textbooks Todhunter and Hogg, Plane Trigonometry, Hobson, Trigonometry One half hour a week
- 17 Elementary Analysis Limits, binomial, exponential and logarithmic series, applications to problems in economics Two hours a week
- 2c Differential and Integral Calculus The elementary theory and applications Text-book Osgoop, Defferential and Integral Calculus Two hours a week
- 2d Differential Calculus An advanced course Text-books WILLIAM-SON, Defferential Calculus, SERRET, Defferential-und Integral-Rechnung, DE LA VALLÉE POUSSIN. Cours d'Analyse Infinifésimale Two hours a week.
- 2e Integral Calculus An advanced course Text-books Williamson, Integral Calculus, SERRET, Defferential-und Integral-Rechnung, DE LA VALLÉE POUSSIN. Coms d'Analyse Infinstésamale Two hours a week
- 2f Solid Geometry An advanced course Text-books Bell, Co-ordinate Geometry of three Dymenssons, C. SMITH, Solid Geometry Two hours a week
 - 2e Exercises on courses 2d, 2e and 2f preceding Three hours a week
- 3c Differential Equations Standard forms of first order and simple forms of higher order. linear equations with constant coefficients and general linear equations of second order Text-books Cohen, Differential Equations, CAMPBELL, Differential Equations One hour a week

- 3d. Theory of Equations An elementary course including applications to number-theory and geometry Text-books Dickson, Elementary Theory of Equations, BURNSIDE AND PANTON, Theory of Equations One hour a week
- 3e Differential Geometry Space curves, envelopes and ruled surfaces, curvature of surfaces, lines on surfaces Text-books Bell, Co-ordinate Geometry of three Dumensions, GOURSAT-HEDRICK, Mathematical Analysis, Vol I Two hours a week
- 3f Theory of Functions of a Real Variable The real number system, limits, sets, functions, continuity, aspects of uniformity, differentiation, integration, representations of functions Text-books GOURSAT-HEDRICK, Mathematical Analysis, Vol I, PIERPONY, Theory of Functions of a Real Variable Three hours a week
- 3g Modern Pure Geometry Geometry treated from the non-metrical standpoint based on properties of alignment Text-books Durell, Plane Geometry for Advanced Students, Veblen and Young, Projective Geometry, Vol I Two hours a week
- 4d Differential Equations The advanced course Text-books JOHN-SON, Differential Equations, FORSYTH, Differential Equations Two hours a week
- 4s Higher Plane Curves With introductory course in Modern Geometry Text-books Salmon, Higher Plane Curves; CLEBSCH, Vorlesungen über Geometrie Two hours a week
- 4f Quaternions With outlines of other Space Analyses Text-books KELLAND AND TAIT, Quaternions, JOLY, Manual of Quaternions, TAIT, Quaternions Two hours a week
- 4g Invariant Theory Text-books Salmon, Higher Algebra, Elliott, Algebra of Quantics, Gordan, Invariantentheorie, Grace and Young, Algebra of Invariants Two hours a week
- 4h Elementary Theory of Functions Text-books HARKNESS AND MORLEY, Introduction to Analytic Functions, FORSYTH, Theory of Functions Two hours a week
- 4: Modern Synthetic Geometry Text-books REYE, Geometry of Position (translated by Holgate), CREMONA, Projective Geometry, LACHLAN, Modesn Pure Geometry, DURELL, Plane Geometry for Advanced Students, VEBLEM AND YOUNG, Projective Geometry Two hours a week
- 49 Advanced Calculus Implicit functions, definite integrals, multiple integration, etc. Text-book GOURSAT-HEDRICK, Mathematical Analysis, Vol I Two hours a week
- 4k Theory of Probability Text-book Article on "Probability" in the eleventh edition of the Encyclopædia Britannica One hour a week

4l Theory of Substitution Groups with applications to Algebraic Equations Text-books NETTO, Theory of Substitutions (Translation by Cole), Weber, Lehrbuch der Algebra, Dickson, Introduction to the Theory of Algebraic Equations

Course 4k is an alternative course for Course 9, Actuarial Science, offered for those students of the Fourth Year who have not taken Actuarial Science in the earlier years

Courses in the Faculties of Arts and Medicine

- 1k Elementary Analysis A course in limits and infinite series, with a special study of the Binomial, Exponential and Logarithmic Series One hour a week
 - 1l Elementary Analytical Geometry One hour a week
- 2h Differential and Integral Calculus An elementary course with special attention to applications. Two hours a week
- 3h Finite Differences Methods and use of formulae Elementary Mathematical statistics Two hours a week

Courses in the Faculty of Applied Science

 $\begin{array}{ll} 1m & \text{Algebra and Elementary Calculus} & \text{Limits, binomial, exponential} \\ \text{and logarithmic series, and the elementary theory of the differential and} \\ \text{integral calculus, with simple applications} & \text{Two hours a week} \\ \end{array}$

- is Analytical Geometry An elementary course emphasizing the general method in this subject. One hour and a half a week
- 2: Differential and Integral Calculus An elementary course with applications One hour a week

MECHANICS

W J LOUDON, B A N E SHEPPARD, M A Professor Lecturer

- 1a Elementary Mechanics Two hours a week during Michaelmas term
- 24 Elementary Statics and Dynamics Two hours a week during the
 - 2b Principles of Mechanics One hour and a half a week
- 3a Elementary Mechanics A course of lectures for Third Year Pass Course One hour and a half a week
 - 3b Advanced Statics Three hours a week during Easter term

- 3c Particle Dynamics Two hours a week during Michaelmas ferm
- 4a Rigid Dynamics Two hours a week
- 4b Celestral Mechanics Two hours a week
- 4c Method of Least Squares One hour a week during the Easter term.

COURSE IN THE EACHITY OF APPLIED SCIENCE

5 Dynamics of Rotation One hour a week

ACTUARIAL SCIENCE

M A MACKENZIE, M A

- Professor 14 Arithmetic Decimals, interest and discount, annuities certain, bond
- values, etc. One hour a week 16 Accounting An introductory course in general principles. One hour a week
 - 2a Elementary Mathematics of Statistics One hour a week
- 25 Accounting, advanced A critical examination of the Theory and Practice of Accounting and the preparation of financial statements Two hours a week
- 2c The Elements of the Theory of Life Annuities and Life Assurances One hour a week
 - 2d Finite Differences Elementary methods and formulæ. One hour a week
 - 3a The Theory of Life Contingencies An advanced course, Part I Two hours a week
- 4a The Theory of Life Contingencies An advanced course, Part II Two hours a week

ASTRONOMY

C A CHANT, M A . PH D Professor of Astrophysics. J. H HORNING, M A .Demonstrator W E W JACKSON, M A Demonstrator H F BALMER, B A Demonstrator

G M BRYCE Class Assistant A W ENTWISTER Class 4 ceretant

PASS COTTREE

I Introduction to Astronomy A course of lectures describing the various astronomical phenomena Opportunity for evening observations will also be given Text-book Young, Elements of Astronomy One hour a week

PASS AND HONOUR COURSES

- 2 Elementary Astronomy A course intended for students in the Pass and Science courses. Text-book Young, Manual of Astronomy Two hours a week
- 3 Elementary Practical Astronomy Intended to accompany 2 Constants of observation (including photography), of the heavily bodies, together with exercises in simple astronomical measurements and in the use of almanase, globes, star-maps, photographs, etc. Text-book WHITINO, Exercises in Astronomy Two hours a week, in afternoon or evening as arranged
- 3a Elementary Astronomy A course dealing chiefly with the celestial sphere and the motions of the heavenly bodies Text-book Young, Manual of Astronomy Two hours of lectures and two hours of practical works a week
- 46 Elementary Astrophysics A course dealing with the physical constitution of the heavenly bodies and including the evolution of the stars and of the solar system Text-books Youws, Manual of Astronomy, Nawatt, The Spectroscope Two hours of lectures and two hours of practical work a week

HONOUR COURSES

- 4 Astronomy A more advanced course Text-books ANDOYER, Cours d'Astronomie, tome 1, The Noutical Almanac For reference BALL, Spherical Astronomy, CHAUVENET, Spherical Astronomy Two hours a week
- 5 Practical Astronomy Observations with the equatorial telescope, the transit instrument and the sextant By courtesy of the director of the Meteorological Observatory the astronomical instruments there are used by the students of the University Text-book CAMPBELL, Practical Astronomy Two evenings a week
- 6 Computation Course A course for the discussion of astronomical observations and for computation, associated with Course 5 Two hours a week
- 7 Introduction to Astrophysics Text-books Scheiner, Astronomical Spectioscopy, Bally, Spectroscopy, Salet, Spectroscopie Astronomique Two hours a week
- 8 Practical Astrophysics A laboratory course to accompany Course 7

PHYSICS

J C McLennan, OBE, PhD, DSc, LLD, FRS

| Professor and Director of the Physical Laborator | | |
|--|------------------------|--|
| E F BURTON, BA, PHD | Associate Professor | |
| JOHN SATTERLY, M. A., D. Sc. | Associate Professor | |
| LACHLAN GILCHRIST, M A , PH D | Assistant Professor | |
| H A McTaggart, Ph D | Assistant Professor | |
| J F T Young, PH D | Demonstrator | |
| C Barnes, M Sc | Demonstrator | |
| Miss R. Carnahan, B.A. | Demonstrator | |
| MISS K M CROSSLEY, B A | Demonstraior | |
| J E CURRIE, B A | Demonstrator | |
| H J C IRETON, M A | Demonstrator | |
| Miss F M Quinean, M A | Demonstrator | |
| A G SHENSTONE, BS, MA, PED | Demonstrator | |
| A C Lewis, M A | Assistant Demonstrator | |
| MISS A T REED, B A | Çlass Assistant | |
| | | |

The work of instruction in Physics consists of a series of courses of lectures and of practical work in the laboratories, which are embodied in the following schedule.

- 1 A course of seventy-five lectures on Properties of Matter, Mechanics, Hydrostatics and Heat These lectures are illustrated by experiments Text-books Eggar, Mechanics, WAGSTAFF, Properties of Matter, STEWART, AND SATTERIY. Text-book of Host
- 2 Properties of Matter, Mechanics, Hydrostatics and Heat A laboratory course of seventy-five hours, one afternoon a week, throughout the year, designed to illustrate the lectures in Course 1 Text-books As for Course 1, also ALLEN AND MOORE, Text-book of Practical Physics, Parts I and I V CLARK, Mathemated and Physical Toble:
- 3 Elementary Magnetism and Electricity A course of thurty-five lectures given in two divisions & and \$\frac{3}\$ Text-bools Harlier, Magnetism and Electricity for Students, STUNARUS TROMPSON, Electricity and Magnetism, BROSS AND POYSER, Electricity and Magnetism, WATON, A Text-book of Physics, STEWART, Electricity and Magnetism, HUTCHINSON, Advanced Magnetism and Electricity.
- 4 Elementary Light A course of twenty-five lectures, one a week beginning in the Michaelmas term Text-books STEWART AND SATTERLY, Text-book of Light, EDSER, Light for Students, WATSON, A Text-book of Physics
- 5 Elementary Acoustics A course of fifteen lectures, one a week Text-books CATCHPOOL, Text-book of Sound, POYNTING AND THOMSON, Sound, WATSON, A Text-book of Physics, D C MILLER, The Science of Musical Sounds

The lectures in Courses 1, 3a, 3b, 4 and 5 are illustrated by experiments

- 6 Magnetism, Electricity, Light and Acoustics: A laboratory course of one hundred and fity hours, two afternoons a week throughout the year, designed to illustrate the lectures in Courses 3a, 3b, 4 and 5. Text-books: ALLINI AND MOORE, Text-book of Practical Physics, CARRIAT AND TEXTSON, Electrical Massurements, C. M. SMITH, Electric and Magnetic RESERMENT, DESER, Light for Students, CLAY, Treakse on Practical Light, CATCE-POOL. Sound.
- 7 $\,$ A course of lectures one hour a week on Elementary Light and Sound Text-books as for courses 4 and 5 $\,$
- 8 A series of lectures, being a portion of the first year Pass Course, on the principles and application of Science Text-book Burton, Lectures in General Physics
- 9 A course of lectures and laboratory work, four hours a week, for second year pass students. This course includes Properties of Matter, Mechanics, Hydrostatics, and Heat. The lectures will deal with simple measurements, energy, gravitation and the pendulum, the general properties of solids, hiquids and gases such as elasticity, viscosity and capillarity, the determination of fluid pressures, specific gravity and the theory and use of common forms of pumps, barometers, etc., the thermal characteristics of various substances, including expansion, various thermometers, specific and latent heat and ealournetry, the phenomena observable during the change of state of substances from one form to another, conduction, redation, heat and energy, the first and second laws of thermodynamics, engines, the liquidation of gases and liquid air, the kinetic theory of matter. Text-books as for coursest and 2
- 10 A course of lectures and laboratory work, four hours a week, for third year pass students. This course includes work in light and acoustics, and consists of a general explanation of vave motion, the reflection, effection, difference phenomena connected with wave motion, the production, propagation, and detection of sound waves, tuning forks, organ papes and wheating strings, various sumucias clasels, analysis of complex sounds, the ear and voice, a study of mirrors, prisms and lenses, the eye, microscope, telescope and other optical instruments, dispension, colour and spectroscopy, intefference and diffraction, double refraction and solarisation, theories of light. Text-books as for Courses 4 and
- 11. A course of lectures and laboratory work, four hours a week, for fourth year pass students. This course will consist of lectures and laboratory work in electricity and magnetism, including recent developments, such as radioactivity and radiogly, laws of magnetism, state electricity, condensers, electrical conduction in solids, liquids and gases, voltac cell, chemical, magnetic and heating effect of the electrical current, potential, Ohm's law and its application, laws of electrical resistance, electromotive forces, induced currents, the induction-onal, alternating and high frequency currents, electrical waves, X-rays and radioactivity Text-books as for Course 8.

- 12 Applications of the theory of Potential to Physics A course of forty lectures Text-book Stabling. Electricity and Magnetism
- 13 Properties of Matter A course of lectures, two a week beginning in the Michaelmas term Text-books Poynting and Tromson, Properties of Matter, Edder, General Physics
- 14 Geometrical Optics A course of lectures, one a week Text-books GLEICHEN, Theory of Modern Optical Instruments, HEATH, Geometrical Optics, SOUTHALL, Mirrors, Prisms, and Lense,
- 15 Advanced Heat and Elementary Thermodynamics A course of lectures, one a week Text-books Edden, Heat for Advanced Students, Hart, A Student's Heat, Person, Heat, E H Griffiths, Thermal Measurement of Energy, E Griffiths, Methods of Measuring Temperature, Persono, Heat.
- 16 Thermodynamics A course of twelve lectures on thermometry and pyrometry, gas and vapour equations and the fundamental principles of thermodynamics Text-books as for Course 15
- 17 A laboratory course on the accurate determination of physical constants, together with practice in laboratory arts. This course involves about one hundred and fifty hours' laboratory work. Text-books ALLEN AND MOORE, Text-book of Practical Physics, WATSON, A Text-book of Practical Physics, WATSON, A Text-book of Practical Physics, WATSON, A Text-book of Editaticity, WOMENSON AND FLINT, Practical Physics, Text-books of the Classificity, WOMENSON AND FLINT, Practical Physics, Text-books of the Classificity, WOMENSON AND FLINT, Practical Physics.
- 18 Calculations for Science Students A course of practical instruction in mathematical drawing, graphs and their applications, biological, mineralogical, chemical and physical calculations and their accuracy, elementary calculus and statistics Text-books TUTLE, Theory of Measurements, S P TRONFSON, Calculus Made Easy, GILL, School of Art Geometry, D'ARCY TRONFSON, Calculus Made Easy, GILL, School of Art Geometry, D'ARCY TRONFSON, Growth and Form
- 19 A short course of lectures and laboratory work on Radiation, including atomic structure and radioactivity
- 20 Theory of Optics A course of lectures two a week throughout the year Text-books DRUDE, Theory of Optics, MANN, Monual of Advanced Optics, BALY, Spectroscopy, Wood, Physical Optics, Schuster, Theory of Optics, HOUSTON, A Treatise on Light
- 21 Elasticity A course of lectures, two a week throughout the year, dealing with the mathematical theory of elasticity with application to the theory of double refraction and polarisation of light Text-books POYNTING AND THOMSON, Properties of Matter, CHRISTIANSEN, Elements of Theoretical Physics, PRILAT, Polarisation et Ophque Crystalline
- 22 Fourier's Series A course of fifteen lectures on Fourier's Series and its applications to Physics Text-books Donkin, Acoustics, Byerly, Fourier's Jeries and Spherical Harmonics, Barkins, A. Text-book on Sound, Carsa Kind Skerrer, Fourier and Persologram Analysis, LAMB, Dynamical Theory of Sound, Carsain, Fourier's Series and Integrals

- 23 Thermodynamics A course of lectures, one a week throughout the year Text-books PONNING AND THOMSON, Heal, PARTINGTON, Thermodynamics, Maxwell, Heal, Lewis, System of Physical Chemistry, Wheet-Ham, Solition and Electrolysis, PRESTON, Heal
- 24 Hydromechanics A course of fifteen lectures during the Easter term Text-books Minchin, Hydrostatics, Besant, Hydro-mechanics, Lame, Hydrodynamics, Barton, Mechanics of Fluids, Ramsey, Hydrodynamics
- 25 Colloidal Solutions A course of lectures on the physical properties of colloidal solutions Text-book Burton, The Physical Properties of Colloidal Solutions
- 26 A course of seventy-five lectures on Electricity and Magnetism including the Electromagence Theory of Light, Electron Theory of Matter, Dispersion, Absorption, Polarization, Magneto-Optics, Electrical Oscillations, Conduction of Electricity in Gases, and Radioactivity Text-books J J Triomson, Elements of Electricity and Magnetism, Recent Researches in Electricity and Magnetism, Conduction of Electricity Group Gosts, Abbana Man Landowin, Ions. Electricity, Option, Theory, Royal Construct, The Theory of Electrons, N R Campetit, Modern Electrical Theory, Ruyellerson, Rodacetors Sublances and their Radioations, Starling, Electricity and Magnetism, Milliation, The Electron, Rodac Instruments and Electricity on Magnetism, Milliation, The Electron, Radio Instruments and Electricity on Magnetism, Milliation, The Electron, Radio Instruments and Electricity on Magnetism, Milliation, Starling, Electricity on Magnetism, Milliation, Starling, Electricity on Magnetism, Milliation, Starling, Starling, Electricity, Starling, Starling, Electricity, Electricity, Sta
 - 27 A laboratory course designed as an extension of Course 17, and as an introduction to research work Text-books Mann, Opics, Watson, Practical Physics, Worsnof and Flint, Practical Physics, Maxower and GRIGER, Radioactivity

A seminar is held once a fortnight in connection with this course, under the supervision of the Director of the Laboratory, at which reports on papers in the current physical journals are presented and discussed

- 28 A course of lectures and laboratory work, specially designed for students taking a one-year course in Physics Text-books Brown, Experimental Science, Physics, Duncan and Starling, Light and Sound, Hutchinson, Intermediate Electricity and Magnetism
- 29 History of Physics Cajori, History of Physics, Whittaker, History of the Theories of Aeller and Matter, Longe, Proneers of Science, The History of the Canendaki Laboratory
- History of the Cavendish Laboratory
 30 High Frequency Alternating Currents A course of twenty-five
- lectures
 31. Vector Analysis A course of twenty-five lectures Coffin, Vector
- Analysis
 32 Course of lectures and laboratory work in light introductory to
 Astronomy Four hours per week
- Regulations Deposit Fee Each student taking laboratory course 2, 6, 10, 11, 17, or 28 is required to make a deposit of three dollars (\$3.00) before beginning work. All supplies, apparatus broken or destroyed and

all fines will be charged against this deposit, which must be renewed when exhausted. At the close of the session cash balances will be returned on a day appointed for the purpose

Additional Text-books

General Physics White, Watson, Ganot, Kidball, Hastings and Brach, Describante (ed Evereth, Jaman, Voluze, Nichols and Panne-Lin, Barlow, Thomson and Tatt, Lempelly, Millerand and Gale, Mann and Twise, Daviell, H. & Williach, Houston (an Introduction to Mathematical Physics), Duncan and Starling, December of Applied Physics (ed Glazhprobe).

Elementary Mechanics Ashford, Glazebrook, Briggs and Bryan, Loney

Elementary Hydrostatics Glazebrook, Briggs and Bryan, Loney Elementary Mechanics and Heat Gregory and Hadley

Elementary Heat Glazebbook, Tyndall, Balfour Stewart, Tait, Draper, Darling, Scarlett, Stewart and Satterly Senior Heat

Elementary Light Jones, Tyndall, Tait, Wright, Glazebrook, Emtage

Elementary Electricity and Magnetism Poyser, Glazebrooe, Leh-FRIGT, CUMMING, DAY, ASHFORD, WAGSTAFF, HUTCHINSON, ASHFORD AND KEMBOOM.

Sound Tyndall, Taylor, Capstick, Zahm

Geometrical Optics Herman, Aldis, Hante, Pareinson, Percival, Whithere, Lerrein, Serrein, Schmitz, Geometrical Optics and Elementary Optics), S. P. Thomeson (Optical Tables and Data), Von Roder, Theory of Optical Instruments, trans by R. Kantchack, and A. Geliceren, Theory of Modern Optical Instruments, trans by Elmsly and Swain, Houstows, A. Treatese on Link!

Mechanics Perry (Applied Mechanics), Barton (Analytical Mechanics), COX (Mechanics), THOMSON AND TAIT, LAMB (Dynamics, Statics). CRABTREE (Stringer Took)

Hydromechanics Greenhill, Basset, Barton (Mechanics of Fluids) Sound (or Acoustics) Donkin, Rayleigh, Helmholtz, Airy, Koenig, Land Raffon

Elasticity Williamson, Jamb, Ibbetson, Love, Todeunter, Searle Physical Optics Drude, Jamin, Verdet, Basset, Glazebrook, Maclaurin, Mascart, Schuster, Wood, Preston, Poynting (Pressure of Leph), Genecke, Mallik, Kayser

Heat and Thermodynamics Clausius, Buckingeam, Parker, Weet-Bam, Planck, Preston, Maxwell, Tate, Partington, Donnan, Lewis (Physical Chemistry), Gibbs, Ewing (The Production of Cold), Ewing (The Steam Engue), Hobbs (The Thermo-dynamics of meine descen), Claude (Liquid Air, Oxygen, Nitrogen), Darling (Pyrometry), LE CHATELIER, GRIFFITH (Method of measuring temperature), R BLONDLOT, Introduction & Viside de la Thermodynamous. Phillips, Madiation

Properties of Matter Meyer, Kinetic Theory, Jeans, Dynan-cal Theory of Gases, Darling, Laguad Drops and Globules, Tait Properties of Matter, Edding, Chemistry, Boys, Soop Bubbles, Willows and Haycher, Prince Tenson, McCewen, Properties of Matter, Chemistry, Boys, Soop Bubbles, Willows and Haycher, Surface Tenson, McCewen, Properties of Matter

Electricity and Magnetism Pointing and Trosson, Entage Maxwill, Maxgret and Journey, Gray, Hansing, Dudisi, Forth Mon-Porter, Webster, Stript, Soidny, Foudshied Pales, Eccles, Barlow (Maldematic Physics, Vol. 1), Karey, James (Alemanine Chemotic) Daysolai (Alemanine Chemotic), Liver, Huychinson, Turner, Wielest Teleprophy and Telephony, Scott-Tagger, Webster, 1998.

Colloidal Solutions Burton, Taylor, Hatscher, Svedberg, Ostwald,

Relativity Conway, Cunningham, Robb, Silberstein, Tolman, Eddington, Camichael, Lawson, Freundlich, Carr, Einstein, Weyl, Broduerl

Modern Theories Comstock and Troland, Duncam, Bragg (X-roys) and Crystal Structure), Soddy, Kaye (X-roys), J J Tromson, Rutherford, Crowther (Molecular Physics, Ions and tonising radiations), Cradwick, Sommerfeid, Andrade (Structure of the Atom), Richardson (The Electron Theory of Matter)

Practical Physics LOUDON AND MICLENNAN, STEWART AND GLE, BARNES, GLAZEBROOK AND SHAW, KOHLRAUSCH, AVRTON, FINDLAY, SCHUSTER AND LEES, SEARLE, TUTTLE (An Introduction to Laboratory Physics)

Practical Mathematics (and Mechanics) CLANER, SARELLY, CASTLE, CARE AND SHEARER (Pelatorgram analysis), GIRSON (Graphs), MINCHIN AND DALE, STERN AND TOTHER, PERRY, GIRSON (Graphs), De BRAY, Exponentials made Easy, BRODETSEY, Nomography, LIPKA, Graphic and Mechanical Computation

Calculus (suitable for Physics students) EDWARDS, EDED, LODES, PROCTOR, BLAINE, MERCER, PEREY (for Engineers), GISSON, MELLOR (HEIGHT MIGHEMALES for Students of Physics and Chemistry), GRAHAM, ORKESN, GODFREY AND SIDDONS, LOVE, LAMB, Plaggio (Defferential Equation).

Theory of Measurements and Errors Lupton, Stevens, Macgregor, Goodwin, Tuttle, Holman, Merriman, Johnson

Mathematical and Physical Tables Bottomley, Castle, Claree, Chambers, Dales, Hall, Kaye and Laby, Macfarlane, McAulay, the Smithsonian, Longley, Woodward, Chappell, Silberstein

The Slide Rule BLAINE, DUNLOP AND JACKSON

BIOLOGY

| _ | |
|----------------------------|---|
| R R WRIGHT, MA, DSc, LL | D Professor Emeritus |
| B A BENSLEY, BA, PHD | Professor of Zoology |
| W H PIRRSOL, BA, MB | Professor of Histology and Embryology |
| E M WALKER, BA, MB | Associate Professor of Biology |
| A G HUNTSMAN, B A , M B | Associate Professor of Marine Biology |
| A F COVENTRY, BA Ass | ustant Professor of Vertebrate Embryology |
| W A CLEMENS, M A, PE D, | Assistant Professor of Limnobiology |
| J R DYMOND, M A | Assistant Professor in Systematic Zoology |
| J W MACARTHUR, MA, PHD | Assistant Professor of Genetics |
| E H CRAIGIB, PH D, Lecture | r in Comparative Anatomy and Neurology |
| W H T BAILLIE, M A , M B | Lecturer in Mammalian Anatomy |
| N K Bigglow, BSc | Assistant in Systematic Biology |
| Miss N H C FORD, Ph D | Instructor |
| C C Brown, Phm B, MB | Class Assistant |
| A E McCulloch, BA, MB | Class Assistant |
| H H MacKay, BA | Class Assistant |
| Miss O Monkman | Class Assistant |
| F B Wilson, Phm B, M B | . Class Assistant |

Courses extending over only the Michaelmas or the Easter term are indicated as (m) and (e) respectively

With the exception of Course I, the lectures and practical instruction in this department are given in the University Biological Building The instruction includes courses in General Biology, Zoology, Comparative Anatomy, Histology and Embryology, these courses being indicated in the various preservations as 200(ogy, 2, 8, 4).

For supplementary reading, except as specified below, the General Reading List of the Department may be consulted

The following courses are provided

PASS COURSES

- 1 General Science A course of seventy-five lectures on the general principles and applications of science This is a co-operative course, given by members of the departments of Physics, Chemistry, Geology, Botany and Zoology
- 2 Elementary Biology (a) A general educational course of two hours a week on the principles of science as applied to living organisms. The instruction is chiefly zoological, emphasis being placed upon the history of animal types and upon the biological aspects of the nature and social development of mankand (b) A practical course of fifty hours in illustration of the principles and laboratory methods of Biology.
- 3 Invertebrate Zoology A course of one hundred hours lectures and laboratory work on the elements of the principal branches of zoology as

applied to the lower animals For reference Shull, Principles of Animal Biology, Cockerell, Zoology, Parker and Haswell, Text-book, vol 1

4 Vertebra e Zoology A course of one hundred hours lectures and laboratory work on the principal branches of zoology as applied to vertebrates, with special reference to those of human application

HONOUR COURSES

- 5 Elementary Zoology A course of two lectures a week throughout the Easter term on the nature, structure and classification of animals For Honour Science students
- 6 Elementary Zoology A laboratory course of seventy-five hours on the general structure of the animal body, its organs and tissues and their functions, principles of adaptation, specialisation, and homology, based on selected types Text-book Heoner, College Zoology For reference PARER AND HASWELI, Text-book of Zoology of Toology
- 7 Comparative Anatomy A laboratory course of ne hundred and fifty hours, compraing dissection and comparative study of selected with of selected with of selected with of selected varieties trypes Part 1, Mammalina Anatomy (m), Text-book Ban-sir, Anatomy of Lower Chordates (s. Rebbis, Part 2, Anatomy of Lower Chordates (s. Rebbis, Part 2, Anatomy of Lower Chordates (s. Rebbis, Part 2, National State of Chordates (s. Rebbis, Part 2, National State of Chordates (s. Rebis, Part 2, National State of Chordates (s. Rebis, Part 2, National State of Chordates (s. Rebis), National State of Chordates (s. Re
- 8 Vertebrate Zoology A course of twenty-five lectures on the system, structure and history of the v richrates For reference, as above (7), GADOW, Classification of Vertebrate, SMITH WOODWARD, Vortebrate Falacontology, WILDER, History of the Human Body
- 9 Invertebrate Zoology A course of twenty-five lectures and seventy-five hours laboratory work on the system and morphology of the invertebrates Text-book Parker and Haswell, Vol I (m)
- 10 A course on mammalian anatomy and the system and natural history of animal foods For Household Science students (m)
- 11 Parasitology A course of fifty hours lectures and laboratory work on the parasites of man Text-book CLANDER, Armad Parasite and Human Disease For reference Parker and Hawsell, Text-book of Zoology, Vol. I, PARTHAL, STREIMS AND THROBALL, Armad Parasites of Mon. RILEY AND JOHANNEN, Medical Entomology, DOANE, Insects and Disease.
- 12 Zoological Collection Students entering the Third Year in the special course of Biology are required to submit, as evidence of field proficiency, a collection of invertebrate animals from a prescribed group, together with an essay on the character and habits of the forms collected Special directions may be had on application to the Biological Department

- 13 Vertebrate Embryology A course of twenty-five lectures on the embryology of the vertebrates
- 14 A course of one hundred hours on limnobiology with special reference to the economic biology of fresh-water organisms
- 15 Problems of Bology An opportunity is afforded to advanced students to become acquainted with the main problems of biologs and literature connected therewith The instruction includes lectures and conferences conducted by different members of the staff, and a course of prescribed reading. The library is provided with the various works for consultation, a partial statement of which will be found in the departmental reading list.
- 15a History of Biological Science A co-operative course dealing with the historical development of the biological branches
- 16 Vertebrate Embryology A laboratory course of one hundred hours on the general embryology of the vertebrates For reference JENKINSON, Vertebrate Embryology, HERTWIG, Lebbauh der Entwicklungsgeschichte, LILLIE, Devicement of the Chrick, Balliff and Millier, Embryology, KELLICHT, General Embryology, Chodato Teedepment, PERPINIS, Textbook of Embryology, GRAHAM KERR, Embryology, MARSHALL, Physiology of Retroduction.
- 17 A course of one hundred hours on the principles and practical methods of genetics
- 18 Structural Neurology A course of lectures and laboratory work on the structure and development of the mammalian nervous system For reference Edinobe, Anatomy of the Nervous System, Herrick, Introduction to Neurology
- 18u Comparative Neurology A course of sixty hours lectures and laboratory work, designed to follow Course 18 or Anatomy 2 In this course is presented an outline of the evolutionary development and significance of the internal anatomy of the central nervous system For reference KAPERIS, Vergleichende Anatomie des Nerwensystems der Wirbelibiere und des Menschap
- 20 A lecture and laboratory course of one hundred hours on general unvertebrate and vertebrate hustology and cytology, including hustology; and technique Text-book Dabloren and Kepner, Principles of Animal Histology For reference Wilson, The Cell in Development and Inheritance, GURWITSEI, Morphology and Bology del Telle, SCHINETER, Histologie der Thiere, Parkant, Bouns, Mallaren, Traité d'Histologie (Vol. I, Cytology), Sarar, Introduction lo Cytology

- 21 Vertebrate Zoology A practical course of one hundred hours of laboratory and numeum work on the morphology, classification and claribution of the vertebrates For reference Ganow, Classification of Vertebrates, Flowers and Lymerkers, Rommins Lennys and Zestnet, Lymerkers, George-picked History of Mammalls, Cambridge National History, Vols virx, REYNOLDS, The Vertebrate Sketten, Flowers, Osteology of the Mammalla, SMITE WOODWARD, Outlaws of Vertebrate Palenthology, Parkser and Haswill, Vol 2, Willey, Amphicosus, Wiederschield, Comparative Analom.
- 22 Advanced Invertebrate Zoology A course of one hundred hours of lectures, laboratory and museum work on the morphology, embryody classification and distribution of the invertebrates. This course is allowed the configuration of the structure of the configuration of the invertebrates. This course is also given by the configuration of the confi
- 28 A special course of one hundred hours on the system and natural history of animals, with special reference to those of Ontario or of Canada.

Research The members of the staff in this department are prepared to suggest problems for investigation in certain branches and to provide materials and laboratory facilities for properly qualified students See "Calendar of the School of Graduate Studies"

COURSES IN THE FACULTY OF MEDICINE

- 24 A course of annety lectures serving as an introduction to the biological fields in relation to medition. The topics include (1) the general nature of living organisms and of cell processes, (2) the types of lower organisms of interest to students in Medicine, (3) the elements of comparative anatomy, and (4) biological principles as applied to man.
- 25 A laboratory course of one hundred and eighty hours, including microscope practice, elementary experimental studies on the nature of cell processes, types of lower organisms, and a selected list of vertebrates
- processes, types of lower organisms, and a selected list of vertebrates

 The entire course of two hundred and forty hours in the second year of

 Medicine consists of Courses 28-29
- 26 A course of ten lectures and twenty hours laboratory work introductory to embryology and histology
- 27 A course of fifteen lectures and sixty hours laboratory work on histogenesis and general histology
- 28 A course of twenty lectures and forty hours laboratory work on the development of the human body

29 A course of fifteen lectures and sixty hours laboratory work on human microscopic anatomy

Note -Courses 26 to 29 are given in conjunction with the Department of Anatomy

- 30 An introductory course of fifty lectures on the principles of evolution heredity and eugenics Second Year option
- 81 A course of sixty hours laboratory work on embryology (including technique) with special reference to the problems of mammahan and human embryology Third Year option
- 32 A course of sixty hours laboratory work on advanced vertebrate histology and cytology, including technique Third Year option
 - 33 Parasitology Third Year option See Course 11
 - 34 Problems of Biology. Third Year option See Course 15
 - 35 Comparative Neurology Third Year option See Course 18a

Course in the Faculty of Applied Science

36 A practical course in experimental biology including the general principles of biology and microscope practice with the lower organisms

COURSES IN THE FACULTY OF FORESTRY

In addition to Courses 5 and 6, which are taken by students in Forestry, the following special courses are provided

- 37 Forest Entomology, twenty-five lectures and fifty hours laboratory work (e) Text-book FERNALD, Applied Entomology For reference FELT, Insects of Park and Woodland Trees
 - 38 A short course on the principles of conservation as applied to animals

UNIVERSITY EXTENSION

39 An elementary course on the general structure of the animal body, to organ and tissues and their (functions, classification and natural lustory of the common animals of Ontario, with special attention to principles of specialization, adaptation and distribution. The course is designed to give the student training in scientific method and also to afford assistance in the teaching of nature study.

BOTANY

| J H FAULL, BA, PHD | Professor |
|--------------------------------|--|
| R B THOMSON, B A | Associate Professor of Phanerogamic Botany |
| H B SIFTON, MA, PHD | Assistant Professor |
| G H DUFF, MA, PHD | Lecturer |
| Miss J G Wright, Ph D | Lecturer |
| A R WALKER, M A | Instructor |
| MISS C W FRITZ, B A , M Sc | Instructor |
| J W ANSLEY, B A | Class Assistant |
| Miss M B Givens, BA | Class Assistant |
| G D DARKER, B A | Assistant |
| C G RILLY, BSA | Assistant |
| J L HART | Assistant |
| W R WATSON | Assistant |
| Courses extendeng over only to | he Machaelmas or the Raster term are undecated |

as (m) and (e) respectively

The lectures and practical instruction in this subject are given in the

Botany and Forestry Building
The following courses are provided

PASS COURSES

1 General Science Course See p 256

- 20 Introductory Course in Botany An introductory course of two hours a week on the general principles of Biology based mainly on the seed plants Text-books CANONG, A Text-book of Botany for Colleges, BERGIN, A Key and Flora (Northern and Central States Edition) For reference KERNIRA RAD CLIVER, Natural History of Plants
- 2b A laboratory course of two hours a week in connection with Course 2a
- 8 A lecture and laboratory course on the lower plants Four hours a week Reference books CURTIS, Nature and Development of Plants, GANONG, A Text-book of Batany for Colleges, LISTER, Mycdona, JORDAN, General Bacteriology, DUGGAR, Fungous Diseases of Plants, STYLENS, DISEASES of Economic Plants, CUTPE, Our Ferns on their Housis
- 4 A lecture and laboratory course on the physiology and the adaptive relationships of plants, and on the general principles of heredity and plant breeding. Four hours a week.

HONOUR COURSES

5 Elementary Botany A course of twenty-five lectures on the life structure and classification of plants Text-book CURTIS, Nature and Development of Plants For reference COUNTER, BARNES AND COWNES, Text-book of Bolany, GANONO, A Text-book of Bolany for Colleges, KERNER AND CAVER, NATURAL HASTO OF Plants (III)

- 6. A laboratory course of fifty hours in connection with Course 5 (m)
- 7 Phanerogamu Botany A course of twenty-five lectures and seventyrive hours laboratory work on the anatomy and morphology of the flowering plants Text-book STRASBURGER, JOST, SCHENER AND KARSTEN, Textbook of Botany, 5th English Edition (1922), and GRAY, New Messual of Botany For reference Coulier, Seed-Plants, BRITTON AND BROWN, An Hustrated France (c)
- 8 Classification of Flowering Plants A lecture and laboratory course of fifty hours in which representatives of the main divisions of the flowering plants are studied in illustration of the fundamental principles of classification. Reference is also made to distribution, especially of the local flora, and to the food plants and other economic plants of the group (m).
- 9 Bolanical Collection Students entering the Second Year in Biology are required to submit a collection of at least 100 species of flowering plants, properly pressed, classified, mounted and labelled For reference Galx, New Mayual of Bolany, BRITON AND BROWN, An Illustrated Flora of the Northern United States and Canada
- 10 A course of 100 hours dealing with the lower seed-plants, living and fossil Text-book COULTER AND CHAMBERLAIN, Morphology of Gymasperms For reference Scorr, Fossil Bolony, PERRALLOW, North American Gymnosperms, DEBASE, Compositive Automy of the Phonerogoms and the Pers, 12FFERS, Automy of Woody Plants
- 11 A course of 100 hours dealing with the higher seed-plants Textbook Coulter and Chambirhalin, Morphology of Angeosperms For reference DeBary, Comparaises Anatomy of the Phanerogams and the Ferns, JEFFREY, Anatomy of Woody Plants
- 12 Cryptogamic Botany A lecture and laboratory course of one hundred and twenty-five hours on the system and morphology of the higher cryptogams For reference COULTER, BARNES AND COWLES, Text-book of Botany, Vol I, CAMPBELL, Mosses and Ferns, BOWER, Origin of a Land Flora [m]
- 13 Microbiology, an elementary course on the morphology and physical cology of Bacteria, Yeasts and Molds for Household Science students: For reference BUCHANAN, Household Bacteriology, MARSHALL, Microbiology, SANGE, Bacteriological Examination of Food and Water, CONN, Bacteria, Yeasts and Molds in the Home, TANNER, Bacteriology and Mycalogy of Foods, GUILLIBRION, TANNER, The Feast, HEINBLANN, Matter, GUILLIBRION, SANGE, MacConn.
- 14 Cryptogamuc Botany, A lecture and laboratory course of one hundred and twenty-five hours on the system and morphology of the algue, fungs, bacteria, and sime molds For reference Lisrey, Mysciozos, Jordan, General Bacterology, FITTING, JOST, SCHERK AND KARSTEN, Lehrback der Botanik, DeBANY, Comperation Merphology and Bulegy of the Fungs, Mysciozoo and Bacteria, DUGGAN, Fungous Discosse of Plants, OLTMANNS, Marphologies and Right

- 15 Classification of cryptogams A lecture and laboratory course of fifty hours in which representatives of selected groups of cryptogams are studied from the taxonomic standpoint Reference is also made to distribution, especially of the local flora (e)
- 16 Botanical Collection Students entering the Fourth Year in Biology are required to submit a collection of cryptogamic plants from prescribed groups
- 17 Plant Physiology A course of twenty-five lectures and seventy-five hours laboratory work on the physiology of plants For reference Jost, Plant Physiology, GANONG, The Leving Plant, FresFren, Physiology of Plants, Palladdin (Livingston), Plant Physiology (e)
- 18 Oecology and Plant Geography A course on factors of habitat and the adaptations of plants to them, plant associations and their geographical distribution For reference Warming, Ecology of Plants, Schimper, Plant Geography One hundred hours
- 19 An advanced course of one hundred hours on the physiology of plants
- 20 A lecture and seminar course on the history of Botany and on the general principles of Biology as related to botanical problems Text-book WALTER, Genetics A list of other assigned literature is obtainable on application to the Department Students proposing to take this course
- 20s Heredity and Plant Genetics A lecture and laboratory course of one hundred hours
- 21 Students in the Third and Fourth Years of the Special Course in Biology will be expected to show a reading knowledge of French and German
- 22 Plant Pathology A lecture, seminar, and laboratory course of one hundred hours on the diseases of plants
 - 23 Palaeobotany A course of fifty hours on fossil plants

should secure this list at the close of their third year

24 Research studies on selected topics for advanced students. One hundred and fifty hours

Research The members of the staff in this department are prepared to suggest problems for investigation in certain branches and to provide materials and laboratory facilities for properly qualified students

COURSE IN THE FACULTY OF APPLIED SCIENCE

 $25\,$ A lecture and laboratory course of seventy-five hours on fundamental biological principles

Course in the Faculty of Forestry

26 Plant Pathology A lecture and laboratory course of seventy-five hours on the diseases of plants, especially of trees

University Extension

27 A course in Botany, with the emphasis on the Natural History of Plants, including a knowledge of the various types of plant life, and the classification, oecology and uses of both native and introduced forms Some attention will also be given to the origin of our cultivated plants. The course in designed as a General Course in Botany to meet especially the needs of the Nature Study Teacher

| A | NATOMY |
|---|---|
| J PLAYFAIR MCMURRICH, M A W H PIERSOL, B A , M B | PR D , LL D Professor Professor of Histology and Embryology |
| J C. WATT, MA, MD | Associate Professor |
| E A LINELL, CH B, M D | Assistant Professor |
| H G ARMSTRONG, M B | Demonstrator |
| H DEW BALL, MB | Demonstrator |
| H A CATES, M B | Demonstrator |
| MISS L A CHASE, BA, MB | Demonstrator |
| W A COSTAIN, M B | Demonstrator |
| B L GUYATT, M B | Demonstrator |
| A L HUETHER, BA, MB | Demonstrator |
| A S LAWSON, M B | Demonstrator |
| E A McCulloce, BA, MB | Demonstrator |
| I M MACDONALD, M D . C M | L Demonstrator |
| H H MACKAY, BA | Demonstrator |
| A G McPhedran, BA, MB | Demonstrator |
| E E SHOULDICE, M B | Demonstrator |
| W E L SPARKS, M B | Demonstrator |
| H G WILLSON, BA, MD | Demonstrator |
| O C J WITHROW, M B | Demonstrator |

- 1 Practical Anatomy --- A laboratory course extending throughout the year
- 2 Histology —A course of lectures and laboratory work, extending throughout the year
- 3 Embryology —A course of lectures and laboratory work dealing with the development of the human body
- 4 Anatomy of the Nervous System —A course of three lectures a week, with demonstrations twice a week, throughout the Michaelman term
- 5 Topographic Anatomy —A course of two lectures a week throughout Easter term
- 6 Anatomical Research—Opportunities will be afforded to properly qualified students for carrying on investigation in anatomical problems
- Text-books Piersch, Human Anatomy, Morris, Human Anatomy, Cunningham, Text-book of Anatomy, Grav, Anatomy, Guide to the Dis-

section of the Human Body, Sobotta-McMurrich, Atlas and Text-book of Human Anatomy, SPALTEHOLZ, Hand Atlas of Human Anatomy, TOLDY, Atlas of Human Anatomy, McMurrich, The Development of the Human Body, Herrick, Introduction to Neurology, VILLIGER, Brass and Stand Cord. BARKER, The Nervous System. RANSON, The Angtomy of the Nervous System

RIOCHEMISTRY

| A HUNTER, M A , B Sc , M B , CH B | . Professor |
|-----------------------------------|--------------------------------------|
| H Wasteneys, Ph D | Associate Professor |
| Miss C C Benson, B A, Ph D | Associate Professor of Physiological |
| | in the Faculty of Household Science |
| H B Speakman, M Sc | Associate Professor of Zymology |
| Miss J McFarlane, M A | Demonstrator |
| H Borsook, MA | Fellow (Easter Term) |
| J A DAUPHINEE, M A | Fellow |
| G S EADIE, BA, MB | . Fellow |

G M McFarlane, B A Fellow I A MORRELL, M A Fellow (Michaelmas Term). The following courses of instruction, each extending throughout the

- 1 A course of lectures in General Biochemistry, three hours a week
- 2 A course of lectures and conferences in Advanced Biochemistry, two hours a week
 - 3 A faboratory course in General Biochemistry, four to six hours a week
- 4 An advanced laboratory course in Biochemistry, six or more hours a week
- 5 A course of lectures on the Principles of Nutrition, one hour a week during the Easter term Open only to students who have taken Course 1
 - 6 Lecture course on Enzyme Chemistry One half-hour a week
 - 7 Research in Biochemistry.

session, are offered

Text-books and Works of Reference

- (a) Elementary or General Hammarsten, Text Book of Physiological Chemistry, Abderhalden-Hall, Text Book of Physiological Chemistry, MATHEWS, Text Book of Physiological Chemistry, Robertson, Principles of Brochemistry
- (b) Advanced or Special Monographs on Brochemsstry, edited by Plummer and Hopkins, ROBERTSON, Physical Chemistry of the Proteins, TAYLOR, Digestion and Metabolism, LUSE, Science of Nutrition, Effront, Brochemical Catalysis in Life and Industry, EULER, General Chemistry of the Engymes, ABDERHALDEN, Brochemisches Handlexskon, Neuberg, Der Harn

Laboratory Handbooks

- (a) Elementary PLIMMER, Practical Organic and Biochemistry, HAWK, Practical Physiological Chemistry, FOLIN, Laboratory Manual of Biological Chemistry, HALLIBURTON, Essentials of Chemical Physiology, Colle, Practical Physiological Chemistry
- (b) Advanced Abderhalden, Handbuch der brochemeschen Arbeitsmethoden, Ellinger, Analyse des Harns

FOOD CHEMISTRY

Miss C C Benson, Ph D Miss J Panton, B A Miss F Burwash, B A Associate Professor Instructor Assistant

HONOTIP COTTREES

- 1 A course of lectures, two a week, on the Chemistry of Foods and Nutrition
- 2 A laboratory course on the Chemistry of Foods, with discussion of supplementary reading Six hours a week
- 3 An advanced laboratory course on the Chemistry of Foods and on problems of Nutrition
 - 4 Research work on Food Chemistry and Metabolism

PASS COTTRUES

- 5 Chemistry of Food Constituents Laboratory work for pass students of the Third Year One afternoon a week
- 6 Composition of Foods Lectures and laboratory work for pass students of the Fourth Year Four hours a week

Text-books and works of reference include Wirtton, Food Analysis, LEACE, Food Inspection and Analysis, LUSK, Science of Nutrition, PAYLOV, The Work of the Digesiwe Glands, ALLYN, Elementary Applied Chemistry, SAYDER, Humon Foods, HALLBURYON, Essentials of Chemical Physiology, Canadian and American bulletins on the chemistry of foods.

PHYSIOLOGY

| J J R MACLEOD, M B, CH B, D P H, D Sc, | FRS Professor |
|--|---------------------|
| J M D OLMSTED, M A , PH D | Associate Professor |
| N B TAYLOR, M B | Assistant Professor |
| M J Wilson, M A , M B | Demonstrator |
| F N Allan, M B | Demonstrator |
| A C TAYLOR, B A | Fellow |
| J Hepburn, M B | Fellow (part time) |
| R S LANG, M A, M B | Fellow (part time) |
| H D Logan, M B | Fellow (part time) |
| N A McCormick, M A | Fellow (part time) |
| E C Noble, M A | Fellow (part time) |
| W P WARNER, M B | Fellow (part time) |
| W R FRANKS | Fellow (bart time). |

The following courses of instruction, each extending throughout the Session, are offered

- 1 Systematic lectures and demonstrations in human physiology Four hours a week
 - 2 Lectures in general physiology
 - 8 Advanced lectures Two hours a week
 - 4 General laboratory courses (Total of 135 hours)
 - (a) Neuro-muscular Physiology
 - (b) Circulation, respiration and digestion
 - (c) Nervous system and special senses
 - 5 Laboratory course in general physiology
 - 6 Advanced laboratory courses
 - 7 Research in physiology
 - 8 Journal Club One hour a week
 - 9 Elementary lectures on the principles of human physiology
- 10 History of Physiology A course of lectures supplemented by

Text-books and works of reference G. N. Stewart, Manual of Physiology, J. J. R. MACHOO, Physiology and Buochemistry wil Modern Metalico Physiology and Buochemistry wil Modern Metalico Physiology (Lockin, Physiology (train by F. Welby), Monographis wi Physiology (to by E. H. Statling). Managraphis via Experimental Biology (ed by J. Loed and W. J. V. Osterhout). Other works important for consultation are Marshall, Physiology of Reproduction, Scalers, Endocrine Organi, Texture of the Physiology of Reproduction, Scalers, Endocrine Organi, Texture of the Physiology of Reproduction, Scalers, Endocrine Organi, Texture of the Physiology of the Physiology (ed by L. Content).

CHEMISTRY

| CH | EMISTRY |
|----------------------------|--|
| W L Miller, BA, PHD | Professor of Physical Chemistry |
| F B ALLAN, PH D | Professor of Organic Chemistry, |
| | Secretary of the Department of Chemistry |
| F B KENRICK, M A, PH D | Professor. |
| J B FERGUSON, B A | Associate Projessor |
| J T BURT-GERRANS, PHM B, M | A, Associate Professor of Electrochemistry |
| L J ROGERS, MA | Assistant Professor. |
| W S FUNNELL, M A | Assistant Professor |
| W H MARTIN, PH D | Assistant Professor |
| W G BIRRELL, B A Sc | Assistant in Electrochemistry. |
| MISS E V EASTCOTT, M A | Assistant |
| J D GARRARD, B A | Assistant. |
| A R GORDON, M A | Assistant in Electrochemistry. |
| G I HOOVER, B A | Assistant |
| C M JEPECOTT, B A | . Assistant |
| M J Mulligan, B A | Assistant |
| R A Prosser, B Sc | Assistant |
| E M Sparling, B A | Assistant |
| C W Sweitzer, B A | Assistant |
| R B WALKER, B A | Assistant |

This subject forms part of the courses of study prescribed for students proceeding to degrees in Arts, Applied Science, Forestry and Medicine

Assistant in Riectrockemistry

In the Honour Course "Chemistry and Mineralogy" in the Faculty of Arts, provision is made by sutable options for students who wish to qualify as Specialists in Science under the Department of Education, in the Honour Course "Chemistry" in a guich provision is made. In both these courses the laboratory work of the fourth year consists of research in one of the branches of chemistry, and arrangements have been made under which this work may be carried out by students of the "Chemistry" course either in the Chemical Laboratory or in the laborators of the department of Chemical Engineering or of Bochemistry, and in the case of students in the "Chemistry" in Chemistry and Mineralogy" course either in the Chemistry and Mineralogy" course either in Chemistry and Department of Chemical Engineering or of Bochemistry, and in the case of students in the "Chemistry and Mineralogy" course either in the Chemistry and Department of Chemical Engineering.

LECTURES

The following courses are provided

A E R WESTMAN, M A

- 1. Elementary Chemistry An introductory course in general chemistry with experimental illustrations. Two lectures a week
- 2 A course of lectures on the influence of chemistry on the progress of civilization. Two lectures a week during session. Note—These lectures

are intended for fourth year Pass students but if the class is too small to justify the giving of this course, Course 7 with appropriate laboratory work will be substituted

- 3 Elementary Organic Chemistry A course of experimental lectures on the systematic classification of the aliphatic compounds and some of the more common aromatic compounds. Two lectures a week.
- 4 Organic Chemistry The work in Course 3 is reviewed and extended, fuller consideration being given to the isocyclic compounds Two lectures a week
- 5 Advanced Organic Chemistry A course on heterocyclic compounds, synthetic methods and stereochemistry Two lectures a week
- 6a History of Chemistry A short course of lectures, commencing in January, on the development of chemistry and chemical theory
 - 6b Essays on Prescribed Topics
- 7 Elementary Physical Chemistry An experimental course on the elements of chemical mechanics and electrochemistry. Two hours a week.
- 8 Elementary Electrochemistry Twenty-five lectures illustrated by experiments
- $9\,$ A course on the application of geometry and the calculus to physicochemical problems $\,$ Two hours a week
- $10\,$ Chemical equilibrium in two-component systems, based on the theory of chemical potential $\,$ Two hours a week
- $11\,$ Advanced Physical Chemistry $\,$ The phase rule, chemical thermodynamics, and chemical kinetics $\,$ Two hours a week
 - 12a Applied Chemistry
 - 12b Applied Organic Chemistry

LABORATORY WORK

- 13 Elementary quantitative chemistry
- 14 Elementary quantitative chemistry (shorter course)
- 15 Analysis, chemical mechanics and organic preparations Four hours a week
 - Quantitative and qualitative analysis
 - 17 Analysis of minerals and rocks
 - 18 Analysis, organic preparations and physico-chemical measurements.
 19 Practical organic chemistry
 - 20 Physico-chemical measurements, and electro-chemistry
 - 20 Physico-chemical measurements, and electro-chemistry
 - 21 Research work for advanced students
- 24 A short course of physico-chemical measurements, including electrical conductivity, migration, and freezing point of solutions

- 25 Electrochemistry, to accompany lecture Course 8
- 26 A laboratory course to accompany Course 2
- 27. Analysis, including electroanalysis.
- 28 Chemical equilibrium between salts and their aqueous solutions
- 29 Chemical equilibrium, including silicates.

LABORATORY REGILATIONS

Each student proposing to attend lectures or practical work in the chemical laboratory must apply for a card which will have marked on it the number of his seat in the lecture room, of his working place in the laboratory and of his locker. These cards will be given only to students presenting their registration cards; and no working place in the laboratory will be allotted until a deposit of four dollars (for some classes three dollars) has been made. Each student will be held responsible for the seat, etc., allotted him, and no change may be made without permission. At the close of the Easter term this card must be presented for certificate of attendance.

Each student is provided with a suitable note-book in which to keep an account of the work done by him during the year. These books will be examined from time to time, and marks will be assigned. The student's standing in practical chemistry is based upon these marks, together with those assigned for the practical examinations of the term, and for written examinations on the work.

An account will be kept with each student, all apparatus broken or destroyed and all fines will be charged against his deposit, which must be renewed when exhausted

The apparatus provided is intended for use in the laboratory only, and may not be removed from the building. At the close of the term's work it must be returned clean and dry.

GEOLOGY AND PALÆONTOLOGY A P COLEMAN, M A, PH D, D SC, LL D, F R S Professor Emerilus

| W A PARKS, B.A., PH D | Professor of Geology |
|-----------------------|-------------------------------|
| E S MOORE, MA, PHD. | Professor of Economic Geology |
| A MacLean, B.A | Associate Professor |
| W S. Dyer, Ph D | Class Assistant |
| T L GLEDHILL, M A | Class Assisiant |
| P S WARREN, B A | Class Assistant |
| S F Kelly, B Sc | Assistant |
| | |

PASS COURSES

1 Elementary Geology and Physiography A course of twenty-five lectures is given weekly throughout the session Works of reference Scott, Introduction to Geology, Davis, Physical Geography, COLEMAN AND PARKS. Elementary Geology.

- $2\,$ (a) A course of fifty lectures and (b) fifty hours' practical work, designed to cover the whole field in a general way. Works of reference As in course No. 1
- 3 Dynamic and Structural Geology A shorter course for students of the pass course. Twenty-five lectures
- 4 Palaeontology (a) A course of twenty-five lectures on Invertebrate and Vertebrate Palaeontology, (b) a laboratory course of fifty hours
- 5 Historical Geology A course of fifty lectures and fifty hours laboratory work on historical geology and palaeontology with special reference to Canada

HONOUR COURSES

- 6 Historical and Stratigraphical Geology and Palmontology A course of fifty lectures is given throughout the session Works of reference Scott, Introduction to Geology, Coleman and Parks, Elementary Geology, Gentin, Text-book of Geology, Perrson and Schuchert, Text-book of Gentory, Gradul, Text-book of Geology
- 7 Illustrative practical course to accompany No 6 A course of thirty hours in the use of maps and sections, and the study of fossils typical of the different formations.
- 8 Dynamical and Structural Geology A course of fifty lectures Works of reference Gentie, Geology, Chamberlin and Salisbury, Geology, Letter. Structural Geology.
- 9 Invertebrate Palæontology A course of fifty lectures throughout the session Works of reference Eastman's translation of ZITTEL'S Text-book of Palæontology, Nicholson, Manual of Palæontology, Grabau, North American Index Fossils
- 10 Invertebrate Paleontology A laboratory course of seventy-five hours Works of reference As in course No 9, Paleontological publications of the Geological Survey of Canada, and of the different State surveys, Bulletins and Monographs of the Geological Survey of the United States
- 11 Drawing and Cartography A practical course of fifty hours in the Faculty of Applied Science
- 12 Precambran Geology A course of twenty-five hours throughout the session Works of reference Van Hise and Lexte, Geology of the Loke Superior Region, Gebers, Feet-book of Geology, Chamberlin and Salisbury, Geology, Vol. II, Reports of the Geological Survey of Canada and of the Ontario Department of Mines
- 13 Glacial Geology and Physiography A course of twenty-five lectures throughout the session Works of reference Geikie, Great Ice Age, Penck, Morphologie der Erdoberfische, De Lapparent, Géographie Physique

- 14 Geological Surveying and Cartography A course of field work and practical work in drafting Three hours per week throughout the year 15 Economic Geology A course of fifty lectures throughout the session
- Works of reference KEMP, The Ore Deposits of the United States and Canada, RIES, Economic Geology, Enmons, General Economic Geology, Moors, Coal, BECK, The Nature of Ore Deposits, SPURS, Ore Magmas, Reports of the Geological Survey of Canada and of the Ontario Department of Mines
- 16 Practical Economic Geology A course of fifty hours laboratory work to illustrate course No 15
- 17 Meteorology A course of twenty-five lectures Works of reference Davis, Elementary Meteorology, Hann, Klimatologic
- 18 Vertebrate Palmontology A course of twenty-five lectures Works of reference Woodward, Vertebrate Palmontology, Nicholson and Lyder-Ker, Manual of Palmontology, Zittell, Tet Book of Palmontology, Vol II (translation by Eastman)
- 19 Stratigraphic Palæontology A course of seventy-five hours lectures and laboratory work Works of reference The publications in the Library of the Department, including various monographs on special subjects and the palæontological reports of the different states and societies
- 20 Mining Geology A course of twenty-five lectures on geological problems associated with mining, typical mining regions in Canada, the United States, and elsewhere being discussed from the geological side Works of reference As in courses Nos 12 and 15.
- 21 A course of twenty-five lectures on Economic Geology and Geography for students in the course of Commerce Works of reference HUNTINGTON AND CUSHING, Principles of Human Geography
 - 22 Vertebrate Palæontology A laboratory course of twenty-five hours

MINERALOGY AND PETROGRAPHY

| T | L | Walker, M A, Ph D | Professor |
|---|---|-------------------|---------------------|
| Α | L | Parsons, B A | Assocsate Professor |
| J | E | THOMSON, B A SC | Assistant Professor |
| H | С | RICKABY, M A | Assistant |

Assistant

For students in the Faculty of Arts of the University of Toronto the following courses of lectures and demonstrations have been arranged

E. W. TODD, B.A.

- 1 Elementary Mineralogy A course of twenty-five lectures once a week throughout the year Books of reference Dana, Text-book of Mineralogy, Rogens, Study of Minerals and Rocks
- 2 A short practical course illustrative of the above, involving twenty hours' laboratory work Books of reference As for Course 1
- 3 Morphological Crystallography A course of twenty-five lectures once a week throughout the year Book of reference Walker, Crystallography

- 4 Blowpipe Analysis and Determinative Mineralogy A laboratory course of three hours a week throughout the year (two hours a week for pass students) Books of reference EAKLE, Mineral Tables, LEWIS, Determinative Mineralogy
- 5 Determinative Mineralogy A laboratory course in continuation of Course 4 Two hours a week Book of reference Lewis, Determinative Mineralogy
- 6 Physical Mineralogy A course of fity hours' lectures and laboratory work, introducing the student to optical and physical crystallography as a preparation for the study of microscopic petrography (seventy-live hours for pass students) Books of reference Dana, Text-book of Mineralogy, WALKER, Crystallography
- 7 Practical Crystallography, including goniometric measurements, crystal drawing, projection and calculation with experiments in physical mineralogy. One day a week during the Michaelmas term
- 8 Systematic Mineralogy A course of fifty hours' lectures and laboratory work, being a continuation of courses 1 and 2 Books of reference Dana. Text-book of Mercalogy. EAUR. Moneral Tables
- DANA, Tevt-book of Monerology, EARLE, Moneral Tables
 9 General Mineralogy Twenty-five lectures on special subjects to be
 selected from year to year Books of reference Kobell, Geschicte der
 Monerologies, FOUDUS ET MICHEL-LEVY, Synthèse des Monéraux et des
- 10 General Mineralogy Practical course of seven hours a week throughout the year
- 11 Petrography One hour a week lectures and practical work throughout the session Books of reference Keur, Handbook of Rocks, Harker, Petrology for students
- 12 Petrography Two hours a week devoted to practical petrography, both macroscopic and microscopic Books of reference LUQUER, Mimerals in Rock Sections, Harker, Petrology for Students
- 13 Assaying Laboratory work in the different branches of the subject, occupying three hours a week throughout the session
- 14 Advanced Petrography Twenty-five lectures on the characteristics of the rock-forming minerals and on general petrography. Book of reference. IDDINGS. Rock Minerals.
- 15 Mineralography Fifty hours laboratory work in the study of opaque minerals by microscopic methods in reflected light Book of reference DAVY AND FARNHAM, Microscopic Examination of the Ore Minerals
 - 16 A course in Mineral Analysis, seventy-five hours
 - 17 Metallurgy, an introductory course of twelve hours
- The work in Mineralogy is carried on in the Mineralogical Laboratories in the Mining Building

Rockes

HOUSEHOLD SCIENCE

MEMBERS OF THE FACULTY OF HOUSEHOLD SCIENCE

| MISS A L LAIRD, MS | | Associate Professor |
|-------------------------|--|---------------------|
| Miss L K Stewart, M S | | Assistant Professor |
| MISS E M McMillan, Pf B | | Lecturer |
| MISS H R COATSWORTH, BA | | Lecturer |
| MISSF M GRAPER, B.S, MA | | Instructor |
| Miss E W Park, M A | | Instructor |

PASS COURSES

- 1a History of Home Life A course of lectures one hour a week throughout the session
- 3a Textiles and Household Management A course of two lectures and one laboratory period a week throughout the session
- 4σ Foods and Food Values $\,$ A course of two lectures and one laboratory period a week throughout the session

HONOUR COURSES

- 1b Household Science A course of lectures one hour a week throughout the session
- 2 Textiles and Household Management A course of ten hours a week throughout the session This includes (a) a study of textiles, (b) a study of metals, woods, etc, used in the home, and the principles underlying their care, (c) the house, (d) the home care of the sick
- 3b Foods and Food Values A course of twelve hours a week throughout the session—lectures and laboratory work
- 4b Economics of the Household A course of lectures and discussions two hours a week throughout the session. It includes the economics of spending, the division of the income, etc.
- 4c Dietetics A lecture course of two hours a week throughout the session and discussion periods, two hours a week
- 4d An advanced laboratory course of six hours a week throughout the session designed to illustrate the lectures in Course 4c Each student also investigates a problem related to her work.

COURSE IN DEPARTMENT OF PUBLIC HEALTH NURSING

5 A lecture course in nutrition and dietetics, family budgets are also discussed

Occasional Work Under certain conditions, occasional students may be admitted to Courses $3\mathfrak{a}$ and $4\mathfrak{a}$

Graduate Work Opportunities are offered in the laboratories to graduate students who desire to engage in research work

Laboratory deposit fee a deposit of three dollars (\$3 00) is required of each student taking laboratory courses. This amount, minus the cost of equipment and apparatus destroyed, will be returned at the end of the session

Books of reference FRIEDENWALD AND RUHRAH, Diel in Health and Disease, Carter, Howe and Mason, Nutrition and Chinical Dietelies. SHERMAN, Chemistry of Food and Nutrition, LUSK, Science of Nutrition, HESS, Principles and Practice of Infant Feeding, SHERMAN AND SMITH. The Vitamins, BAILEY, Source, Chemistry and Use of Food Products. SHERMAN, Food Products, Vulté and Vanderbilt, Food Industries. LEACH, Food Inspection and Analysis, WILEY, Foods and Their Adulteration, WELD, Marketing of Farm Products, McKHLOP AND ATRINSON. Economics, American Academy of Political and Social Science, Cost of Laving, Haskins, How to Keep Household Accounts, Sheaffer, Household Accounting, Campbell, Household Economics, Richards, Cost of Langue. Cost of Shelter, RAVENBILL, Household Administration, Tinkler and MASTERS, Applied Chemistry, Vol I. WOOLMAN AND McGOWAN, Textiles, McGowan and Waite, Textules, Dooley, Textules, Balderston, Laundering, MARSH, Laundry Work, BALDERSTON, Houseunfery, CLARK. The Care of a House, VAN RENSSREADE, ROSE AND CANON, Manual of Home Making, Maxwell and Pope, Practical Nursing, Government Bulletins, Journal of Biological Chemistry, Journal of Home Economics

RELIGIOUS KNOWLEDGE

| RELIGIOUS KNOWLEDGE | | |
|---------------------------------|--------------------|--|
| S M Adams, M A | Trinity College | |
| REV W R R ARMITAGE, M A | Wycliffe College | |
| W T Brown, MA, PHD | Victoria College | |
| REV R DAVIDSON, PH D | Knox College | |
| REV H T F DUCKWORTH, M A | Trinity College | |
| REV ALFRED GANDIER, MA, DD, LLD | Knox College | |
| S H HOOKE, M A, B D | Victoria College | |
| REV B W HORAN, MA, BD | . Wycliffe College | |
| REV A J JOHNSTON, B A | Victoria College | |
| REV E A MCINTYRE, M A , B D | Wycliffe College | |
| REV J F McLAUGHLIN, BA, DD | Victoria College | |
| REV [T McNeill, M A , Ph D | Knox College | |

RELIGIOUS KNOWLEDGE-Continued

| REV WILLIAM MANSON, MA . | . Knox College |
|----------------------------------|----------------------|
| REV F D MEADER, B A | St Michael's College |
| | |
| REV S A B MERCER, M A, D D, PH D | Trinity College |
| REV J H MICHARL, M A | Victoria College |
| REV H C S MORRIS, M A | Trinity College |
| REV T R O'MEARA, DD, LL D | Wycliffe College |
| REV C VENN PILCHER, M A , D D | Wycliffe College |
| REV W A POTTER, MA, BD | . Victoria College |
| REV D M RAMSAY, DD | Knox College |
| REV N ROCHE | St Michael's College |
| REV W. ROLLO, M A | Transty College |
| REV C A SEAGER, M A . D D | , Trinity College |
| REV W E TAYLOR, MA, Ph D | Wycliffe College |
| REV F H WALLACE, MA, DD | Victoria College |

FIRST VEAR

- 1a A first course in the English Bible One hour
- 1b A first course in Natural and Revealed Religion One hour
- 1c A first course in the language of the Greek New Testament Three hours
- 1d Oriental Languages 1a, p 207 One hour

SECOND VEAR

- 2a A second course in the English Bible Two hours
- 2b A second course in Natural and Revealed Religion Two hours
- 2c A second course in the language of the Greek New Testament. Not
- 2d. A course in Church History (Victoria) Two hours
- 2e Oriental Languages 2a, p. 207 Two hours

THIRD YEAR

- 3a A third course in the English Bible Three hours
- 3ò A third course in Natural and Revealed Religion Three hours
- 3c. A first course in the Literature and Language of Greek Testament
 Three hours
- 3d A course in Church History Three hours
- 3e A first course in the History and Philosophy of Religion Three hours
- 3f Oriental Languages 3a, p 207 Three hours

FOURTH YEAR

- 4a A fourth course in the English Bible Three hours
- 4b A fourth course in Natural and Revealed Religion Three hours
- 4c A second course in the Literature and Language of Greek Testament
 Three hours
- 4d A course n Church History Three hours
- 48 A second course in the History and Philosophy of Religion Three
- 4f Oriental Languages 4a, p 207 Three hours

WORLD HISTORY

C T CURRELLY, M A Professor of the History of Industrial Art
Miss C G HARCUM, M A, PH D Assistant Professor of the History of
Tadustrial Art

Students of the Third and Fourth Years will attend the same lectures and will take either course 1 or course 2

- A course on the History of Art
- 2 A course on the Development of the Mechanical Industries

These courses are to be taken in alternate sessions

MILITARY STUDIES

W R Lang, D Sc , Colonel (late General Staff, C E F) Director G S Cartwright, C B , C M G , Brig-Gen (late R E), Special Lecturer

These courses are options in all Arts courses of the second, third and fourth years respectively

Students who have had some military training

—C E F, Militia, or Cadet Corps—are admitted

- 1 This course comprises elementary tactics, topography, musketry, organization and administration, and (in addition to these professional subjects) lectures on citizenship, the relations between the various parts of the Empire with regard to defence, trade-routes, coal and fuel stations, naval power, and the distribution of the Empire's armed forces.
- 2 The professional subjects of course 1 are continued on a more advanced grade, with the addition of Military Hygrene

In addition to the educative nature of the subjects considered in their two courses, they comprise the work necessary for COTC certificate "A" which qualifies for substantive commissions as Leutenants of Infantry Candidates completing these and passing the examination prescribed by the Imperial Authorities for all OTC's in the Empire and conducted by the Militia Department are recommended for this certificate

3 This course covers the work required for the higher certificate and involves the study of Organization, Administration, Law, Strategy, and some portion of Military History Those who complete this course successfully and have had defined military experience are recommended to the Militar Denartment as candidates for the certificate

For particulars of the C O T.C, in which the practical portion of these courses is done, see page 159

| PASS | COL | RSE | TIME | ·T/ | ۱BL | E |
|------|-----|-----|------|-----|-----|---|
| | | | | | | |

| 8 | Monday | TUESDAY | Wednesday |
|----|---|---|--|
| 9 | 1 Latin 2 German 3 Ethics 4 English | 1 English 2 Latin 3 Hebrew, Rel Know, Mal Stud 4 Ethics | 1 Latin 2 Rel Know, Mil Stud 3 Ethics 4 English |
| 10 | 1 German 2‡French 3 Latin 4 Latin | 1 French 2 German 3 English 4 Math I, Chem | 1 French 2 English 3 Phys, G & M, HS 4 French |
| 11 | 1 Mathematics 2 Zool, Bot, Math II, Astronomy 3 Anc & Mod Hist 4 Rel Know, Mil Stud | 1 Trig, Rel Know 2 Greek 3 Math I, Chem 4 Hist Phil, Psychol | 1 Heb, Ital, Span 2 Chem, Math I 3 Economics 4 Anc & Mod Hist |
| 12 | 1 Science 2 Greek 3 Hist Phil 4 Math II, Zool, Bot | 1 Science 2 Anc & Mod History 3 Math II, Bot, Zool 4 Greek, French | 1 Mod History 2 Phys, G & M 3 Anc & Mod Hist 4 Hebrew, Phys, G & M, HS |
| 1 | | | |
| 2 | 1 French 2†Chemistry, †Astronomy 3†Phys, †G &M, †HS 4 Economics | 1 Greek 2†Phys, †G & M 3 Ital, Span 4 Ital, Span | 1 Greek 2†Zool,†Bot 3 French 4 German |
| 3 | 1 Greek 2†Chemistry, †Astronomy 3†Phys, †G & M, †H S 4†Psychol | 1 Heb, Ital, Span 2†Phys, †G & M 3 Economics 4†Zool, †Bot | 2†Zool, †Bot 3 German 4†Phys, †G &M, †HS |
| 4 | 1 Economics 2 Philosophy, Psychol 4†Psychol | 2 Economics 3 Psychol 4†Zool,†Bot | 2 Heb , Ital , Span 3 Greek 4†Phys , †H S |
| 5 | | | |

change of which due notice will be given to the students concerned ‡Hours reserved for Scientific French

THURSDAY FRIDAY

PASS COURSE TIME-TABLE

SATURDAY

| 9 | ,1 English 2 Latin, G & M 3 Ethics 4 Rel Know, Mil Stud | 1 Latin 2 Greek 3 Rel Know 4 English | 1 Mod Hist 2 Rel Know, Mil Stud 3 English 4 French |
|----|--|---|--|
| 10 | 1 Greek 2‡French 3 English 4 Anc & Mod Hist | 1 German 2 Latin 3 French 4 Ethics | 1 Latin 2 English 3 Greek, French 4 German |
| 11 | 1 Heb, Ital, Span 2 Chem, Math I 3 Phys, G & M, HS 4 Math II, Zool, Bot | 1 Mathematics 2 French 3 Latin 4 Latin, Math I, Chem | 1 French 2 Heb, Ital, Span 3 German 4 Hebrew, Phys, G & M, H S |
| 12 | 1 Anc History 2 Zool, Bot, Math II, Astronomy 3 Hist Phil, Zool, Bot, Math II 4 Ital, Span | 1 Science 2 Phys 3 Math I, Chem 4 Hist Phil, Psychol | 1 German 2 Mod History 3 Hebrew, Mil Stud |
| 1 | | | |
| 2 | 1 German 2 Economics 8†Chemistry 4†Chemistry | 1 Heb , Ital , Span 2 German 3 Ital , Span , Heb 4 Economics | |
| 3 | 1 Economics 2 Heb, Ital, Span 3†Chem 4†Chemistry | 2 Philosophy, Psychol 3†Zool, †Bot, †Psychol* 4 Greek | |
| 4 | 2 Anc & Mod History 3 Psychol | 2 Psychol 3†Zool., †Bot , †Psychol * | |
| | | | |

PRESCRIPTION FOR COURSES

The courses leading to the degree of Bachelor of Arts are (a) THE PASS COURSE

(b) The following Honour Courses -

HISTORY OPTION)

Ct. ASSTCS Psychology

GREEK AND HEBREW MATHEMATICS

ORIENTAL LANGUAGES MATHEMATICS AND PHYSICS ORIENTAL LANGUAGES PHYSICS

(GREEK OPTION) Brot ogy

FRENCH GREEK AND LATIN PHYSIOLOGY AND BIOCHEMISTRY MODERN LANGUAGES BIOLOGICAL AND MEDICAL SCIENCES

ENGLISH AND HISTORY CHEMISTRY AND MINERALOGY MODERN HISTORY CHEMISTRY

POLITICAL SCIENCE GROLOGY AND MINERALOGY

COMMERCE AND FINANCE SCIENCE (GENERAL) PHILOSOPHY HOUSEHOLD SCIENCE PHILOSOPHY (ENGLISH OR HOUSEHOLD ECONOMICS

The requirements for each of these courses are detailed in the following schedules, where the numerals refer to the corresponding numbers of the courses on the pages indicated The paging in these schedules is that of the separate Arts Calendar, in each case add 121 to find the corresponding page in this calendar

PASS COURSE

| | First Year | | |
|---|--|----|------|
| 1 | English 1a, 1b, p 89 | 21 | ours |
| 2 | Latin 1a, p 83 | 4 | ** |
| 3 | Mathematics 1a, 1b, p 123 | 2 | ** |
| | One of Greek la or 1b, p 81 | 4 | ** |
| | Hebrew 1b, p 86 | 4 | ** |
| | German 1a, p 92 | 4 | |
| | French 1a, p 95 | 4 | ** |
| | Italian 1a or 1c, p 98 or Spanish 1a or 1d, p 99 | 4 | u |
| 5 | One of Greek and Roman History 1, p 85 | 1 | ** |
| | Mathematics 1c, p 123 | 1 | ** |
| | Religious Knowledge 1a or 1b or 1c or 1d, p 155 | 1 | ** |
| ß | One of a second language from 4 | 4 | ** |
| • | French 1b, p 95 | 2 | ** |
| | Mathematics 1d, p 123 | 3 | ** |
| | History 1a, p 100 and Political Economy 1c, p 108 | 3 | ** |
| | Greek and Roman History 1, p 85 and Political Econor | nv | |
| | 1c, p. 108 | 3 | ** |
| 7 | General Science 1, p 135 | 3 | " |

- (a) The student who qualifies for admission to the Pass Course under Section 6 (b) or 6 (c) page 13, and who has not obtained credit for at least one subject of the First Year at the Honour Matriculation or equivalent examination, must not take General Science as a subject of the First Year. but such student in the Second Year must take General Science or a science of group 3, as one of his five subjects See section 6, page 162
- (b) If such a student, however, should on the results of the examination of the First Year in the Pass Course be admitted to the Second Year of one of the following Honour courses Oriental Languages, Oriental Languages (Greek Option), Modern History, Political Science, Philosophy, he will not be required to take General Science in addition to the work of the Second Year in one of the above Honour Courses
- 2 Except under special circumstances and on the recommendation of his College, a student of the First Year presenting Honour Matriculation certificates, may not claim exemption in more than three subjects, and so must attend lectures and write examinations in at least four subjects
 - 3 Greek and Roman History 1 may not be chosen under both 5 and 6
- 4 The course in French 1b or Mathematics 1d is open only to the student who has obtained credit in that subject at the Honour Matriculation or equivalent examination. Similar courses in Latin and German may be arranged for, provided a sufficient number of applications are received from students qualified to take such courses
- 5 A student of Chinese birth and education is permitted to substitute Chinese for Latin in the First and Second Vears. For such students a special curriculum in Chinese will be prepared

SECOND YEAR

In selecting the subjects of study in the Second Year the student should have in mind the subjects intended to be taken in the Third and Fourth Vears

- 1 A subject chosen in the Second Year should be continued through the Third and Fourth Years, foreign languages continued from the First Year, viz., Greek, Latin, Hebrew, German, French, Italian, Spanish, as well as English, Ancient History and Philosophy, may be taken in the Second Year without obligation to continue them in the Third and Fourth Vears
- 2 Modern History, Political Economy, Psychology, Mathematics I. Mathematics II, Astronomy, Physics, Zoology, Botany, Chemistry, Geology and Mineralogy, Military Studies, if taken in the Second Year, must be continued throughout the Course
- 3 Ethics. History of Philosophy and Ancient History may be begun in the Third Year, but if chosen must be continued in the Fourth Year
- 4 English, Ancient History and Religious Knowledge may be taken in the Third and Fourth Years without having been taken in the Second Year

- 5 A student who proposes to take Household Science in the Third and Fourth Years is required to take Chemistry in the Second Year and Food Chemistry in the Thud and Fourth Years
- 6 A student who has been debarred from talong General Science in the First Year (see section 1, page 161) must rake in the Second Year 164 General Science of the First Year or one of the Sciences (including Mathematics I and Mathematics 11) beginning in the Second Year I halter case the subject chosen must be continued through the Third and Fourth Years.
- 7. No student may take three foreign languages or three Sciences except by special permission of the Council on the recommendation of his College, but this permission does not carry with it the right to continue the three subsects in the Third and Fourth Years
- 8 A student of the Second Year who has not previously taken Hebrew may, with the consent of his College and of the Council of the Faculty of Arts, substitute Hebrew of the First Year for a lianguage of the Second Year, on condition that he substitute Hebrew of the Second and Thrd Years for a language of the Third and Fourth Years respectively
- 9. The choice of subjects made in the Second Year cannot be varied except on joint action of the College and University authorities

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PRESCRIPTION FOR THE SECOND YEAR PASS COURSE
                                                             3 hours
1 One of Greek 2a or 2b, p 81
                                                             3 "
         Latin 2a, p 83
                                                             3
         Hebrew 2b, p. 86
         Mathematics I Mathematics 2a, 2b, p 128
                                                             3
         Mathematics II Actuarial Science 1a, p 127
         Astronomy Physics 32, p 132
         Physics 9, p 130
         Zoology 2, p 135
         Botany 2a, 2b, p 140
         Chemistry 1, 14, pp 147, 148
         Geology and Mineralogy Mineralogy 1, 4, 11,
             pp 151, 152
                                                                ..
2 One of Greek 2a or 2b, p 81
          Latin 2a, p 83
                                                              3
          Hebrew 2b, p 86
                                                              3 "
          German 2a, p 92
          French 2a, p 95
                                                              3 "
          Italian 2a or 2b, p 98 or Spanish 2a or 2b, p 99
3 Three of
          An additional language from 2
                                                              2 "
          English 2a, 2b, p 89
                                                              2 "
          Greek and Roman History 2a, p 85 or
```

| History 2a, 2b, p 100 | 3 | hours |
|---|----|-------|
| Political Economy 2e, p. 109 | 2 | " |
| Philosophy 2a, p 115 or †2e, p 118 | 3 | 44 |
| Psychology 2a, 2f, pp 121, 122 | 3 | 44 |
| Religious Knowledge 2a or 2b or 2c or 2d or 2e, p 155 | 2 | 44 |
| Military Studies 1, p 156 | 2 | *** |
| Not more than two of | | |
| Mathematics I Mathematics 2a, 2b, p 123 | 3 | hours |
| Mathematics II Actuarial Science 1a, p 127 | 8 | ** |
| Astronomy Physics 32, p 132 | 4 | и |
| Physics 9, p 130 | 4 | ** |
| Zoology 2, p 135 | 4 | и |
| Botany 2a, 2b, p 140 | 4 | ** |
| Chemistry 1, 14, pp 147, 148 | 4 | ** |
| Geology and Mineralogy Mineralogy 1, 4, 1 | 1, | |
| pp 151, 152 | 4 | ** |
| General Science 1, p 135 | 3 | ** |

THIRD AND FOURTH YEARS

The plan upon which the work of the Third and Fourth Years is arranged is indicated so that students of the Second Year may make their choice of subjects of that year in such a way as to be able to enter the particular group desired in the higher years with the least possible adjustment

The subjects of the Third and Fourth Years are arranged as follows 2 hours

| (b) | German, French, Italian or Spanish | 3 | " | |
|-----|---|---|----|--|
| (c) | English | 3 | ** | |
| (d) | Religious Knowledge or Military Studies | 3 | ** | |
| (e) | Ancient History or Modern History, Ethics, History of Philo | | | |

sophy, Political Economy, Psychology (f) Mathematics (3 hours), Physics, Zoology, Botany, Chemistry, Geology and Mineralogy

(a) Household Science Notes-(a) Five subjects are to be chosen, not more than two from any

one group (b) Not more than three subjects may be chosen from groups (a), (b),

(c) A student of the Third Year who has not previously taken Hebrew may, with the consent of his College and of the Council of the Faculty of Arts, substitute Hebrew of the First Year for a language of the Third Year. on condition that he substitute Hebrew of the Second Year for a language of the Fourth Year

†St Michael's College

(c) and Religious Knowledge 3c, 4c, of (d)

(a) Greek, Latin, Hebrew

A student in the Pass Course who is entitled to register in the Third Year is required to submit to the authorities of his College, his selection of subjects for each of the Third and Fourth Years Registration cannot be completed until the College has formally approved of his selection

PRESCRIPTION FOR THE THIRD YEAR PASS COURSE

| PRESCRIPTION FOR THE THIRD YEAR PASS COURSE | | |
|---|-----|------|
| Greek 3a, p 81 | 3 1 | hour |
| Latin 3a, p 83 | 3 | " |
| Hebrew 3b, p 86 | 3 | " |
| English 3a, 3b, p 89 | 3 | " |
| German 3a, p 92 | 3 | ** |
| French 3a, p 95 | 3 | " |
| Italian 3a, 3b, p 98 | 3 | " |
| Spanish 3a or 3d, p 99 | 3 | " |
| Greek and Roman History 3a, p 85 | 3 | ** |
| History 3a, 3b, p 101 | 3 | ш |
| Political Economy 3e, p 110 | 3 | " |
| Philosophy 3a, pp 115, 116 or †3h, p 118 | 3 | ** |
| Philosophy 3b, p 116 or †3f or 3g, p 118 | 3 | u |
| Psychology 3a, 3f, pp 121, 122 | 3 | ** |
| Mathematics I Mathematics 3a, p 123 | 3 | u |
| Mathematics II Mechanics 3a, p 126 | 3 | и |
| Astronomy | 4 | ш |
| Physics 10, p 130 | 4 | " |
| Zoology 3, pp 135, 136 | 4 | 41 |
| Botany 3, p 140 | 4 | и |
| Chemistry 3, 18, p 148 | 4 | " |
| Chemistry 3, p 148 and Food Chemistry 5, p 145 | 4 | " |
| Geology and Mineralogy Geology 3, p 150, Geology 4, p 150 | | |
| or Mineralogy 6, p 152 | 4 | " |
| Household Science 3a, p 153 | 4 | " |
| Religious Knowledge 3a or 3b or 3c or 3d or 3e or 3f, p 155 | 3 | " |
| Military Studies 2, p 156 | 3 | и |
| | | |

PRESCRIPTION FOR THE FOURTH YEAR PASS COURSE

| Greek 4a, p 81 | 3 hours | | |
|-----------------------------------|---------|--|--|
| Latin 4a, p 83 | 3 " | | |
| Hebrew 4b, p 86 | 3 " | | |
| English 4a, 4b, p 90 | 3 " | | |
| German 4a, p 93 | 3 " | | |
| French 4a, pp 95, 96 | 3 " | | |
| Italian 4a, p 98 | 3 " | | |
| Spanish 4a or 4d, p 99 | 3 " | | |
| Greek and Roman History 4s. p. 85 | 3 " | | |

[†]St Mschael's College

*Honours

| 3 | hours |
|---|---|
| 3 | ** |
| 3 | ** |
| 3 | ** |
| 3 | ** |
| 3 | и |
| 3 | 44 |
| 4 | ** |
| 4 | ** |
| 4 | " |
| 4 | 44 |
| 4 | 44 |
| 4 | 41 |
| 4 | " |
| 4 | ** |
| 3 | и |
| 3 | 44 |
| | 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |

CLASSICS

ENTRANCE CONDITIONS

A candidate for admission to the First Year of the Honour Course in Classics must present, in addition to complete Pass Matriculation standing, certificates giving him reduit at the Honour Matriculation or an equivalent examination in the following five subjects—creek, Latin, Mathematics (Algebra and Coemetry), together with two additional subjects, one of which should be French or General

A student admitted to this course on probation by special petition, who has not fulfilled all the entrance conditions, must do so at the examination of the First Year. See Sections 32.35, p. 19

| or elernor rear occoccions oo-as, p 18 | |
|---|-------------|
| FIRST YEAR | |
| English 1a, 1b, p 89 | 2 hours |
| One of German 1a, p 92 | 4 " |
| French 1a, p 95 | 4 " |
| One of Mathematics 1c, p 123 | 1 " |
| Religious Knowledge 1a or 1b or 1c or 1d, p 155 | 1 " |
| (Candidates who are exempt from Science or German as a P. | ass subject |
| of the First Year may offer this subject in lieu of Religious Kno | wledge) |
| *Greek 1c, p 81 | 5 hours |
| *Latin lc, p 84 | 434" |
| *Greek and Roman History 1, p 85 | 1 " |
| tSt Mechael's College | |

SECOND VEAD

| CACORD IEEE | |
|---|---------|
| One of English 2a, 2b, p 89 | 2 hours |
| German 2a, p 92 | 3 " |
| French 2a, p 95 | 3 " |
| One of English 2a, 2b, p 89 (if not already chosen) | 2 " |
| History 2a, 2b, p 100 | 3 " |
| Religious Knowledge 2a or 2b or 2c or 2d or 2e, p 155 | 2 " |
| Military Studies 1, p 156 | 2 " |
| *Greek 2c, p 82 | 5 " |
| *Latin 2b, p 84 | 535" |
| *Greek and Doman History 2h p. 85 | 2 " |

THIRD YEAR

| One of Greek 3h, p 82 and Latin 3f, p 84 | 1 hour |
|---|---------|
| Religious Knowledge 3a or 3b or 3c or 3d or 3e or 3f, p 155 | 3 hours |
| Military Studies 2, p 156 | 3 " |
| *Greek 3b, p 82 | 7 " |
| *Latin 3b, p 84 | 6 " |
| *O I D III. III. OF OF | 1 " |

FOURTH VEAR

| One of Greek 4h, p 83 and Latin 4e, p 85 | | | iour |
|--|---|-----|------|
| Religious Knowledge 4a or 4b or 4c or 4d or 4e or 4f, p 15 | 3 | 3 l | our |
| Military Studies 3, p 157 | | 3 | ** |
| *Greek 4b, p 83 | | | " |
| *Latin 4b, p 84 | | | ** |
| *Greek and Roman History 4b, 4c, 4d, p 85 | | 2 | ** |

GREEK AND HEBREW

ENTRANCE CONDITIONS

A candidate for admission to the First Year of the Honour Course in Greek and Hebrew must present, in addition to complete Fass Matriculation standing, certificates giving him credit at the Honour Matriculation or an equivalent examination in the following five subjects—Greek, Latin, Mathematics (Algebra and Geometry), one of English, French, Cerman, together with an additional subject.

A student admitted to this course on probation by special petition, who has not fulfilled all the entrance conditions, must do so at the examination of the First Year See Sections 33-35, p 19

| FIRST YEAR | | | |
|--|----------------------------|-------------------|--|
| English Ia, Ib, p 89 One of Mathematics Ic, p 123 Religious Knowledge Ia or Ib or Ic or Id, p 155 **Creek Ia, p 82 **Oreek and Koman History I, p 85 **Oriental Languages Ib, p 86 | 1 1 5 1 4 | hours "" "" | |
| SECOND YEAR | | | |
| One of English 2a, 2b, p 89 Philosophy 2a, p 115 or †2e, p 118 Religious Knowledge 2a or 2b or 2c or 2d or 2e, p 155 Military Studies 1, p 156 One of Latin 2a, p 83 German 2a, p 92 French 2a, p 58 "Creek 2a, 2c, p 82 "Creek and Komian History 2a, p 85 "Oriental Languages 2c, 2d, 2g, p 87 | 3 2 2 3 3 3 | hours | |
| THIRD YEAR | | | |
| Greek and Roman History 3a, p. 85 One of English 3a, 3b, p. 89 Philosophy 3a, pp. 115, 116 or †3h, p. 118 Philosophy 3b, p. 116 or †3t or 3c, p. 118 Religious Knowledge 3a or 3b or 3c or 3d or 3c or 3f, p. 155 **Oreak 3a, 3c, p. 82 **Oriental Languages 3c, 3d, 3g, p. 87 | 3 3 3 3 5 6 | hours | |
| FOURTH YEAR | | | |
| Greek and Roman History 4a, p. 85 One of English 4a, 4b, p. 80 Philosophy 4a, p. 116 or †4i, p. 119 Philosophy 4b, p. 116 or †4i, p. 119 Religious Riowledge 4a or 4b or 4a or 4d or 4e or 4l, p. 156 **Greek 4a, 4b, p. 83 **Oriental Language 4c, 4d, 4g, pp 87, 88 153 **Mendez's College | 3 3 3 3 5 5 | nours | |

ORIENTAL LANGUAGES

ENTRANCE CONDITIONS

Every student applying to enter the Honour Course in Oriental Languages at the beginning of the Second Year must obtain at the examination of the First Year in the Pass Course an average of at least 60 per cent in the subjects which he is required to take, with not less than 66 per cent in Hebrew It is recommended that the optional language be either Greek or Cerman

It is possible however to transfer from any other Honour Course at the heginning of the Second Year, provided the candidate has obtained not less 45 -- 00 --- --- TI-1

| FIRST YEAR | | |
|--|-------|-------|
| 1 English 1a, 1b, p 89 | 21 | hours |
| 2 Latin 1a, p 83 | 4 | ** |
| 3 Mathematics 1a, 1b, p 123 | 2 | ** |
| 4 Hebrew 1b, p 86 | 4 | 14 |
| 5 One of Greek and Roman History 1, p 85 | 1 | ** |
| Mathematics 1c, p 123 | 1 | и |
| §Religious Knowledge la or 1b or 1c or 1d, p 155 | 1 | ш |
| 6 One of Greek 1a or 1b, p 81 | 4 | ** |
| German 1a, p 92 | 4 | ** |
| French 1a, p 95 | 4 | 15 |
| French 1b, p 95 | 2 | н |
| Mathematics 1d, p 123 | 3 | ** |
| History 1a, p 100 and Political Economy 1c, p 108 | 8 | н |
| Greek and Roman History 1, p 85 and Political Econor | nv | |
| lc, p 108 | ´3 | 64 |
| 7 General Science 1, p 135 | 3 | ** |
| \$Students in this Course, who have not taken Greek previo | usly. | and |

who do not take Greek 1b, 2b, etc. are advised to take Religous Knowledge 1c, and the similar Courses in the subsequent years. Attention is drawn to Sections 1, 2, 3 and 4, page 161, which apply also

| to the First Year of this course | | |
|---|-----|------|
| SECOND YEAR | | |
| English 2a, 2b, p 89 | 2 l | ours |
| One of Greek 2a or 2b, p 81 | 3 | " |
| Latin 2a, p 83 | 3 | ** |
| German 2a, p 92 | 3 | ** |
| French 2a, p 95 | 3 | ** |
| History 2a, 2b, p 100 | 3 | н |
| Greek and Roman History 2a, p 85 | 2 | " |
| Philosophy 2a, p 115 or †2e, p 118 | 3 | 44 |
| Religious Knowledge 2a or 2b or 2c or 2d or 2e, p 155 | 2 | ** |
| Military Studies 1, p 156 | 2 | 44 |
| *Oriental Languages 2c, 2d, 2e, 2f, 2g, p 87 | 10 | ** |

THIRD YEAR

| Two of English 3a, 3b, p 89 | 3 | hour |
|---|---|------|
| Greek and Roman History 3a, p 85 | 3 | ** |
| History 3a, 3b, p 101 | 3 | ** |
| Philosophy 3a, pp 115, 116 or †3h, p 118, or | 3 | " |
| Philosophy 3b, p 116 or †3f or 3g, p 118 | 3 | " |
| Religious Knowledge 8a or 3b or 3c or 3d or 3e or 3f, p 155 | 3 | " |
| Military Studies 2, p 156 | 3 | ** |
| One of Greek 3a, p 81 or 3g, p 82 | 3 | ** |
| Latin 3a, p 83 | 3 | ** |
| German 3a, p. 92 | 3 | *** |
| French 3a, p 95 | 3 | " |
| *Oriental Languages 3c, 3d, 3e, 3f, 3g, p 87 | 9 | ** |
| *Oriental Languages, one of 3h, 3i, 3j, p 87 | 2 | *** |

FOURTH YEAR

| Two of English 4a, 4b, p 90 | 3 | hours |
|---|---|-------|
| Greek and Roman History 4a, p 85 | 3 | ** |
| History 4a, 4b, 4c, pp 101 | 3 | и |
| Philosophy 4a, p 116 or †41, p 119, or | 3 | ш |
| Philosophy 4b, p. 116 or †4g or 4h, pp. 118, 119 | 3 | и |
| Religious Knowledge 4a or 4b or 4c or 4d or 4e or 4f, p 156 | 3 | ** |
| Military Studies 3, p 157 | 3 | и |
| One of Greek 4a, p 81 or 4g, p 83 | 3 | " |
| Latin 4a, p 83 | 3 | " |
| German 4a, pp 98 | 3 | ** |
| French 4a, pp 95, 96 | 3 | и |
| *Oriental Languages 4c, 4d, 4e, 4f, 4g, pp 87, 88 | 7 | u |
| §*Oriental Languages, one of 4h, 41, 41, p 88 | 2 | ** |

\$Students must continue the course selected in the Third Year

Every candidate in this course shall, during the Fourth Year, present a dissertation on some subject connected with Oriental Languages or Literature, such subject to be previously approved by his instructors in the department. The essay will, on or before the 1st of April in each year, be land before the instructors in Oriental Languages in University College, Vectora College and Trinity College, who will examine it and assign to it marks according to their judgment of its ment. Such marks will be reported to the Registrar and be taken into account by the examiners in determining the standing of the candidate at the examination of the Fourth Year.

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ORIENTAL LANGUAGES-GREEK OPTION Every student applying to enter the Honour Course in Oriental Lan-

ENTRANCE CONDITIONS

guages with Greek Option, at the beginning of the Second Year, must obtain at the examination of the First Year in the Pass Course, an average of at least 60 per cent in the subjects which he is required to take, with not less than 66 per cent in Greek and Hebrew

Candidates may begin the study of Greek in the First Year under the beginner's course Greek 1b. 2b

| FIRST YEAR | | |
|---|-----|-------|
| English 1a, 1b, p 89 | 2 | hours |
| Latin 1a, p 83 | 4 | 41 |
| Mathematics Ia, 1b, p 123 | 2 | ** |
| Greek 1a or 1b, p 81 | 4 | ** |
| Oriental Languages 1b, p 86 | 4 | ** |
| One of Greek and Roman History 1, p 85 | 1 | ** |
| Mathematics 1c, p 123 | 1 | |
| Religious Knowledge 1a or 1b or 1c or 1d, p 155 | 1 | ** |
| General Science 1, p 185 | 3 | ** |
| Attention is drawn to sections 1 and 2, page 161, which applies | a l | so to |
| the First Year of this course | | |
| SECOND YEAR | | |
| Greek and Roman History 2a, p 85 | | hours |
| One of Latin 2a, p 83 | 3 | ** |
| German 2a, p 92 | 3 | |
| French 2a, p 95 | 3 | " |
| One of English 2a, 2b, p 89 | 2 | |
| History 2a, 2b, p 100 | 3 | ** |
| Philosophy 2a, p 115 or †2e, p 118 | 8 | " |
| Religious Knowledge 2a or 2b or 2c or 2d or 2e, p 155 | 2 | 11 |
| Military Studies 1, p 156 | 2 | ti . |
| Greek 2a or 2b, 2g, pp 81, 82 | 4 | ** |
| *Oriental Languages 2c, 2d, 2g, p 87 | 6 | ** |
| §Not less than 66% must be obtained in Greek | | |
| THIRD YEAR | | |
| Greek and Roman History 3a, p 85 | | hours |
| One of English 3a, 3b, p 89 | 8 | " |
| Philosophy 3a, pp 115, 116 or †3h, p 118 | 3 | " |
| Philosophy 3b, p 116 or †3f or 3g, p 118 | 3 | |
| Religious Knowledge 3a or 3b or 3c or 3d or 3e or 3f, p 155 | 3 | ** |
| Military Studies 2, p 156 | 3 | 11 |
| *Greek 3e, 3g, p 82 | 5 | ** |
| *Oriental Languages 3c, 3d, 3g, p 87 | 5 | ** |
| †St Michael's College | | |

*Honours

FOURTH YEAR

| Greek and Roman History 4a, p 85 | 3 | houre |
|---|---|-------|
| One of English 4a, 4b, p 90 | 3 | ** |
| Philosophy 4a, p 116 or †4i, p 119 | 3 | н |
| Philosophy 4b, p 116 or †4g or 4h, pp 118, 119 | 3 | ** |
| Religious Knowledge 4a or 4b or 4c or 4d or 4e or 4f, p 156 | 3 | ** |
| Military Studies 3, p 157 | 3 | 44 |
| *Greek 4e, 4g, p 83 | 5 | ш |
| *Oriental Languages 4c, 4d, 4g, pp 87, 88 | 4 | н |

FRENCH GREEK AND LATIN

ENTRANCE CONDITIONS

A candidate for admission to the First Year of the Honour Course in French Greek and Latin, must present, in addition to complete Pass Maticulation standing, certificates giving him credit at the Honour Matriculation or an equivalent examination in the following five subjects— Latin, Mathematics (Algebra and Geometry), two of Greek, English, French, tozerher with an additional subject

A student admitted to this course on probation by special petition, who has not fulfilled all the entrance conditions, must do so at the examination of the First Year See Sections 33-35, p. 19

In each year of the Course, French, Greek and Latin are to be taken, two as honour subjects, the third as a pass subject Candidates taking Greek as their pass subject, may begin the study of Greek in their First Year under the beginner's course. Greek 1b. 2b

| Greek as their pass subject, may begin the study of Greek in the Year under the beginner's course, Greek 1b, 2b | eır | First |
|--|-----|-------|
| | | |
| First Year | | |
| One of Mathematics 1c, p 123 | 1 | hour |
| Religious Knowledge 1a or 1b or 1c or 1d, p 156 | 1 | ** |
| (Candidates who are exempt from Science or German as a Pass | su | bject |
| of the First Year may offer this subject in lieu of Religious Kno | wle | dge) |
| One of Greek In or 1b, p 81 | 4 | hours |
| Latin 1a, p 83 | 4 | ** |
| French Ia, p 95 | 4 | ** |
| Two of *Greek 1f, p 82 | 5 | ** |
| *Latin 1e, p 84 | 5 | и |
| *French 1g, 1h, 1i, pp 96, 97 | 5 | ** |
| *English 1a,-1d, p 90 | 2 | t t |
| *Greek and Roman History 1, p 85 | 1 | " |
| †St Michael's College | | |

| SECOND YEAR | |
|---|---------|
| One of English 2a, 2b, p 89 | 2 hours |
| Religious Knowledge 2a or 2b or 2c or 2d or 2e, p 155 | 2 " |
| Military Studies 1, p 156 | 2 " |
| One of Greek 2a or 2b, p 81 | 3 " |
| Latin 2a, p 83 | 3 " |
| French 2a, p 95 | 3 " |
| Two of *Greek 2f, p 82 | 41/5" |
| *Latin 2d, p 84 | 41/2" |
| *French 2f, 2g, 2h, p 97 | 41/2" |
| One of *Greek and Roman History 2b, p 85 | 1 " |
| *Phonetics, p 100 | 1 " |

THIRD YEAR

| One of English 3b, p 89 | 81 | 3 hours | |
|---|----|---------|--|
| French 3g, p 97 | 2 | ш | |
| Religious Knowledge 3a or 3b or 3c or 3d or 3e or 3f, p 155 | 3 | ** | |
| Military Studies 2, p 156 | 3 | u | |
| One of Greek 8a, p 81 | 3 | и | |
| Latin 3a, p 83 | 8 | и | |
| French 3a, p 95 | 3 | и | |
| Two of *Greek 3f, p 82 | 6 | и | |
| | | | |

| *Latin 8e, p 84 | 5 | " |
|---|-----|-----|
| *French 8c, 8d, 8e, 8f, p 97 | 5 | ** |
| FOURTH YEAR | | |
| One of English 4b, p 90 | 3 1 | hou |
| French, 4g, p 97 | 2 | " |
| Religious Knowledge 4a or 4b or 4c or 4d or 4e or 4f, p 156 | 3 | ** |
| Military Studies 3, p 157 | 3 | ** |
| One of Greek 4a, p 81 | 3 | " |
| Latin 4a, p 83 | 3 | " |
| French 4a, pp 95, 96 | 3 | " |
| Two of *Greek 4f, p 83 | 6 | ** |
| *Latin, 4d, p 85 | 5 | " |
| *French 4c, 4d, 4e, 4f, p 97 | 5 | " |

MODERN LANGUAGES

ENTRANCE CONDITIONS

A candidate for admission to the First Year of the Honour Course in Modern Language must present, in addition to complete Pass Matriculation standing, certificates giving him credit at the Honour Matriculation or an equivalent examination in the following five subjects—thirt, French, Mathematics (Algebra and Geometry), one of German, Italian, Spanish, together with an additional subject

^{*}Honoure

A student admitted to this course on probation by special petition, who has not fulfilled all the entrance conditions, must do so at the examination of the First Year See Sections 33-35, p. 19

In determining the standing of candidates in English, French, German, Italian and Spanish, examiners will take into account the report of the instructors in the University and Colleges in these subjects

FIRST YEAR

| One of Mathematics 1c, p 123 | | 1 hour | | |
|---|---|---------|--|--|
| General Science 1, p 135 | | 3 hours | | |
| Religious Knowledge la or 1b or 1c or 1d, p 155 | | 1 " | | |
| Three of *English 1a, 1c, 1d, p 90 | | 3 " | | |
| *German 1c, 1d, 1e, 1h, p 93 | | 5 " | | |
| *French 1g, 1h, 1i, pp 96, 97 | | 5 " | | |
| *Italian la or Ic, 1b, p 98 | | 416" | | |
| *Spanish 1a or 1d, 1b, p 99 | • | 41/2" | | |

Note—Not more than one new language may be begun in this First Year

SECOND YEAR

| One of Philosophy 2a, p 115 or †2e, p 118 | 3 1 | ours |
|---|-----|------|
| Religious Knowledge 2a or 2b or 2c or 2d or 2e, p 155 | 2 | " |
| Military Studies 1, p 156 | 2 | " |
| Three of *English 2a, 2b, 2c, p. 90 | 4 | " |
| *German 2c, 2d, 2e, p 93 | * | ** |
| *French 2f, 2g, 2h, p 97 | 4 | " |
| *Italian 2a or 2b, p 98 | 3 | ш |
| *Spanish 2a or 2b, p 99 | 8 | ** |
| *Phonetics, p 100 | 1 | ** |

THIRD YEAR

| §One of German 3e, p 93 | 2 | hours |
|---|-----|-------|
| French 3g, p 97 | 2 | ** |
| Italian 3d, p 98 | 2 | |
| Spanish 3c, p 99 | 2 | 44 |
| Philosophy 3b, p 116 or †3f or 3g, p 118 | 3 | 11 |
| Religious Knowledge 3a or 3b or 3c or 3d or 3e or 3f, p 155 | 3 | ** |
| Military Studies 2, p 156 | 3 | ш |
| Two of *English 3a, 3b, 3c, pp 90, 91 | 5 | 64 |
| *German 3b, 3c, 3d, p 93 | 5 | ** |
| *French 3c, 3d, 3e, 3f, p 97 | 5 | ** |
| *Italian 3a, 3b, 3c, p 98 | 5 | ** |
| *Spanish 2a and 3b, or 3d, p. 99 | - 5 | ** |

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| FOURTH YEAR | | |
|---|-----|-------|
| §One of German 4g, p 94 | 2 1 | hours |
| French 4g, p 97 | 2 | 11 |
| Italian 4c, p 98 | 2 | ** |
| Spanish 4c, p 99 | 2 | и |
| Philosophy 4b, p 116 or †4g or 4h, pp 118, 119 | 3 | 11 |
| Religious Knowledge 4a or 4b or 4c or 4d or 4e or 4f, p 156 | 3 | 11 |
| Military Studies 8, p. 157 | 3 | ** |
| Two of *English 4a, 4c, 4b or 4e, pp 91, 92 | 5 | ** |
| *German 4b, 4c, 4d, 4e, pp 93, 94 | 5 | н |
| *French 4c, 4d, 4e, 4f, p 97 | 5 | o |
| *Italian 4a, 4b, p 98 | 5 | u |
| *Spanish 4a and 4b, or 4d, p 99 | 5 | и |

§Students in the Third Year selecting German 3e or French 3g or Italian 3d or Spanish 2c, and students in the Fourth Year selecting German 4g or French 4g or Italian 4c or Spanish 4c, must choose one of the languages in which they are taking honours

ENGLISH AND HISTORY

A candidate for admission to the First Year of the Honour Course in English and History must present, in addition to complete Pass Matriculation standing, certificates giving him credit at the Honour Matriculation or an equivalent examination, in the following five subject—fix, Mathematics (Algebra and Geometry), two of Greek, English, French, German, Inceptive givin an additional subject.

A student admitted to this course on probation by special petition, who has not fulfilled all the entrance conditions, must do so at the examination of the First Year See Sections 33-35. p. 19

(Candidates who have qualified for entrance into this course by obtaining Honour Matriculation standing in three foreign languages may offer one of these languages in lieu of Religious Knowledge)

| of these languages in lieu of Religious Knowledge) | |
|--|--|
| *English 1a, 1c, 1d, p 90 | 3 hour |
| *History 1c, p 101 | 2 " |
| *Greek and Roman History 1, p 85 | 1 " |
| Two of *Greek 1d, p 82 | 4 " |
| *Latin 1d, p 84 | 4 " |
| *German 1c, 1d, 1e, p 93 | 436" |
| *French 1g, 1i, pp 96, 97 | 436" |
| †St Mschael's College | |
| *Honours | |
| | *History 1c, p 101 *Greek and Roman History 1, p 85 Two of *Greek 1d, p 82 *Latin 1d, p 84 *German 1c, 1d, 1e, p 93 *French 1g, 11, pp 96, 97 |

SECOND YEAR

| One of Political Economy 2d, pp. 108, 109 | 1 | hour |
|---|-------|-------|
| Religious Knowledge 2a or 2b or 2c or 2d or 2e, p 155 | 21 | ours |
| Military Studies 1, p 156 | 2 | ** |
| *English 2a, 2b, 2c, p 90 | 4 | ** |
| *History 2d, 2e, p 102 | 3 | ** |
| Two of *Greek 2d, p 82 | 3 | 44 |
| *Latin 2c, p 84 | 3 | a . |
| *German 2c, 2e, p 93 | 3 | er . |
| *French 2f, 2g, p 97 | 3 | ** |
| 1 tenen m 281 p | | |
| THIRD YEAR | | |
| One of Philosophy 3b, p 116 or †3f or 3g, p 118 | 9 | hours |
| Religious Knowledge 3a or 3b or 3c or 3d or 3e or 3f, p 155 | 3 | " |
| Military Studies 2, p 156 | 8 | 11 |
| *English 8a, 3d, 8e, pp 90, 91 | 5 | - |
| | 1 | ** |
| *History 3d, p 104 | 2 | и |
| One of *Greek 3c, p 82 | 2 | 44 |
| *Latin 3c, p 84 | 3 | " |
| *German 3b, p 93 | 2 | |
| *French 3c, p 97 | 2 | |
| One of *English 3c, p 91 | 2 2 2 | ** |
| *History 3c, p 103 | 2 | |
| *Greek 3d, p 82 and *History 3f, p 104 | | |
| *Latin 3d, p 84 and *History 3f, p 104 | 2 | " |
| | | |
| FOURTS YEAR | | |
| One of Philosophy 4b, p 116 or †4g or 4h, pp 118, 119 | | hours |
| Religious Knowledge 4a or 4b or 4c or 4d or 4e or 4f, p 156 | 3 | " |
| Military Studies 3, p 157 | 3 | 11 |
| *Greek 4c, p 83 (Aristotle's Poetics, in English) | 1 | и |
| *English 4a, 4b, 4d, 4e, pp 91, 92 | 7 | " |
| *History 4e, p 105 | 1 | ** |
| One of *English 4c, p 91 | 2 | ** |
| *History 4d, pp 104, 105 | 2 | ** |
| *Greek 4d, p 83 and *History 4h, p 105 | 2 | 4.5 |
| *Latin 4c, p 85 and *History 4h, p 105 | 2 | ** |

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MODERN HISTORY

ENTRANCE CONDITIONS

A candutate for admission to the First Year of the Honour Course in Modern History must present, in addition to complete Pass Matriculation standing, certificates giving him credit at the Honour Matriculation of an equivalent examination in the following five subjects—Lain, Mothematics (Algebra and Geometry), History, French or German, together with an additional subject

A student admitted to this course on probation by special petition, who has not fulfilled all the entrance conditions, must do so at the examination of the Furst Year See Sections 33-35. p. 19

A student who has obtained complete standing at the examination of the First Year in the Pass Course with an average of 68 per cent in at least four subjects, may enter the Second Year of the Honour Course in Moder History

The entrance conditions and the First Year Course in Modern History are the same as those required for the Political Science Course. A student may thus choose at the end of his First Year whether he will proceed in the Modern History Course or in the Political Science Course.

FIRST YEAR

| One of Greek and Roman History 1, p 85 | 21 | hour |
|---|----|------|
| | 2 | " |
| Mathematics 1 ₁ , p 124 | 2 | |
| One of Mathematics 1c, p 123 | 1 | ** |
| Religious Knowledge 1a or 1b or 1c or 1d, p 155 | 1 | " |
| *English 1a, 1b, p 89 | 2 | ** |
| One of *Latin 1d, p 84 | 4 | ** |
| *German Ic, 1d, p 93 | 4 | " |
| *French 1g, p 96 | 4 | " |
| *Italian 1a or 1c, p 98 | 4 | ** |
| *Spanish la or ld, p 99 | 4 | ** |
| *History 1c, 1d, p 101 | 3 | " |
| *Political Economy 1a, 1b, p 107 | 4 | ** |
| | | |

SECOND YEAR

| One of History 2h, p 103 | 2 hour | 8 |
|---|--------|---|
| Religious Knowledge 2a or 2b or 2c or 2d or 2e, p 155 | 2 " | |
| Military Studies 1, p 156 | 2 " | |
| *English 2a, 2b, 2c, p 90 | 4 " | |
| *History 2c or 2d, 2e, 2f, pp 102, 103 | 5 " | |
| *Political Economy 2a, p 108 | 3 " | |

*Political Economy 2b, p 108

THIRD VEAD

| One of English 3a, 3b, p 89 Religious Knowledge 3a or 3b or 3c or 3d or 3e or 3l, p 155 Military Studies 2, p 156 "History 3c, 3d, 3c, 3f, pp 103, 104 One, of "English 3d, p 91 "History 3g, p 104 | 3 hours 3 " 3 " 7 " 2 " 2 " |
|---|--|
| FOURTH YEAR | |
| One of English 4a, 4b, p 00 Religioux Knowledge 4a or 4b or 4c or 4d or 4e or 4f, p 156 Military Studies 3, p 157 *History 4d, 4e, 4f, 4g, 4h, pp 104, 105 One of *English 4d, p 0 *History 4a, p 105 | 3 hours 3 " 3 " 6 " 2 " |

POLITICAL SCIENCE

ENTRANCE CONDITIONS

A candidate for admission to the First Year of the Honour Course in Political Science must present, in addition to complete Pass Matriculation standing, certificates giving him credit at the Honour Matriculation or an equivalent examination in the following five subjects—Latin, Mathematics (Algebra and Geometry), History, French or German, together with an additional subject

A student admitted to this course on probation by special petition, who has not fulfilled all the entrance conditions, must do so at the examination of the First Year See Sections 38-35, p. 19

A student who has obtained complete standing at the examination of the First Year in the Pass Course with an average of 66 per cent in at least four subjects, may enter the Second Year of this Honour Course

The entrance conditions and the First Year course in Political Science are the same as those required for the Modern History course. A student may thus choose at the end of his First Year whether he will proceed in the Political Science course or in the Modern History course.

FIRST YEAR

One of Greek and Domon History 1 a 95

| Mathematics 1 _J , p 124 | 2 | ** |
|---|---|----|
| One of Mathematics 1c, p 123 | 1 | ** |
| Religious Knowledge 1a or 1b or 1c or 1d, p 155 | 1 | - |
| *English la 1h n 00 | - | |

^{*}Honours

| FIRST YEAR—Continued | | |
|--|--------|-------|
| One of *Latin 1d, p 84 | 41 | ours |
| *German Ic, 1d, p 93 | 4 | 11 |
| *French 1g, p 96 | 4 | ** |
| *Italian la or Ic, p 98 | 4 | 44 |
| *Spanish Ia or Id, p 99 | | u |
| *History 1c, 1d, p 101 | 3 | ** |
| *Political Economy 1a, 1b, p 107 | 4 | " |
| SECOND YEAR | | |
| One of Philosophy 2a, p 115 or †2e, p 118 | 3 | hours |
| Mathematics 2h, p 126 | 2 | " |
| Religious Knowledge 2a or 2b or 2c or 2d or 2e, p 155 | 2 | ** |
| Military Studies 1, p 156 | 2 | н |
| *History 2g, p 108 | 2 | ** |
| *Political Economy 2a, 2b, 2c, p 108 | 9 | a |
| | | |
| DIVISION I-THIRD YEAR-POLITICS AND LAW | | |
| One of Philosophy 3a or 3e, pp 115-117 or †4i, p 119 | | hours |
| Mathematics, 3i, p 123 | 3 | u |
| Religious Knowledge 3a or 3b or 3c or 3d or 3e or 3f, p. 155 | 3 | |
| Military Studies 2, p 156 | 3 4 | ,, |
| *History 2f, 3e, pp 103, 104 | 3 | ,, |
| *Political Economy 8a or 3d, pp 109, 110 | 5 | |
| *Law 3a, 3b, 3c, 3d, pp 112, 113 | Đ | |
| DIVISION I-FOURTH YEAR-POLITICS AND LAW | | |
| One of Philosophy 4a, p 116 or †4o, p 121 | | hours |
| Mathematics, 4m, p 124 | 3 | ш |
| Religious Knowledge 4a or 4b or 4c or 4d or 4e or 4f, p 156 | 8 | ** |
| Military Studies 3, p 157 | 3 | ** |
| *History 4f, p 105 | 1 | ** |
| *Economics 4e, p 111 | 2 | |
| *Law 4a, 4b, 4c, 4d, pp 113, 114 | 6 | |
| *Economics 4b or 4c or 4f, pp 110, 111 | 3 | " |
| DIVISION II-THIRD YEAR-ECONOMICS | | |
| One of Philosophy 3a or 3e, pp 115-117 or †41, p 119 | 3 | hours |
| Mathematics, 31, p 123 | 3 | 14 |
| Religious Knowledge 3a or 3b or 3c or 3d or 3e or 3f, p 155 | 3 | |
| Military Studies 2, p 156 | 3 | |
| *Economics 3a, 3b, 3c, 3d, pp 109, 110 | 12 | ** |
| †St Michael's College | | |
| 10 | | |

Division II-Fourth Year-Economics

| One of Philosophy 4a, p 116 or †4o, p 121 | 3 1 | hours |
|---|-----|-------|
| Mathematics, 4m, p 124 | 3 | ** |
| Religious Knowledge 4a or 4b or 4c or 4d or 4e or 4f, p 156 | 3 | ** |
| Military Studies 3, p. 157 | 3 | и |
| *Economics 2b, 4e, 4i, pp 108-112 | 7 | ** |
| Two of *Economics 4b, p 111, 4c, p 111, 4f, pp 111, 112 | 4 | и |

COMMERCE AND FINANCE

The course in Commerce and Finance and the Course in Commerce have been amalgamated The new course, called hereafter Commerce and Finance, leads only to the Bachelor of Commerce degree Consequently

| the Arts course of Commerce and Finance will cease to exist a session $1925-1926$ | [ter | the |
|---|------|------|
| THIRD YEAR | | |
| English 3a, 3b, p 89 | 8 ł | ours |
| One of Latin Sa, p 88 | 3 | " |
| German 8a, p 92 | 8 | " |
| French 3a, p 95 | 8 | ** |
| Physics 10, p 130 | 4 | ** |
| Chemistry 3, 15, p 148 | 6 | " |
| Geology and Mineralogy Geology 3, p 150, Geology 4, | | |
| p 150 or Mineralogy 6, p 152 | 4 | " |
| One of History 8a, 8b, p 101 | 8 | " |
| Philosophy 3a, pp 115, 116 or †3h, p 118 | 3 | " |
| Religious Knowledge 3a or 3b or 3c or 8d or 3e or 3f, p 155 | 3 | " |
| World History 1 or 2, p 156 | 2 | " |
| Military Studies 2, p. 156 | 3 | ** |
| *Political Economy 2b, 3a, pp 108, 109 | 4 | ш |
| One of *Political Economy 3b or 3c, pp 109, 110 | 2 | ** |
| *Actuarial Science 3a, p 124 | 2 | ш |

FOURTH YEAR

2 hours

| - 1 | 0 | •• |
|-----|-----|------------------|
| | o . | " |
| 2 | 3 | " |
| | * | " |
| | в | " |
| 16, | | |
| | 4 | " |
| | | 3 3 4 6 |

[†]St Mschael's College * Honoure

English 4a, 4b, p 90

FOURTH VEAR-Continued

| One of History 4a, 4b, 4c, p 101 | 8 ho | urs |
|---|------|-----|
| Religious Knowledge 4a or 4b or 4c or 4d or 4e or 4f, p 156 | 3 4 | |
| World History 1 or 2, p 156 | 2 ' | 4 |
| Military Studies 3, p 157 | 3 4 | ı |
| *Political Economy 2b, p 108 | 2 ' | 4 |
| *Law 4e, pp 114, 115 | 1 ' | 1 |
| Two of *Political Economy 4b, p 111, 4c, pp 111, 3d, p 110, | | |
| 4e, p 111, 4f, p 112, *Actuarial Science 4a, p 124 | 4 ' | , |

PHILOSOPHY

ENTRANCE CONDITIONS

A candidate for admission to the First Year of the Honour Course in Philosophy must present, in addition to complete Pass Matriculation standing, certificates giving him credit at the Honour Matriculation or an equivalent examination in the following five subjects-Latin, English, Mathematics (Algebra and Geometry), one of History, Greek, French. German. Physics, together with an additional subject

A student admitted to this course on probation by special petition, who has not fulfilled all the entrance requirements, must do so at the examination of the First Year See Sections 33-35, p 19

A student who has obtained complete standing at the examination of the First Year in the Pass Course with an average of 66 per cent in at least four subjects may enter the Second Year of the Honour Course in Philosophy

FIRST VEAD

| LIKOI I EAK | | |
|---|---|-------|
| General Science 1, p 135 | 8 | hours |
| One of Mathematics 1c, p 123 | 1 | " |
| Religious Knowledge 1a or 1b or 1c or 1d, p 155 | 1 | ** |
| One of *Greek 1g, p 82 | 4 | ш |
| *Latin 1d, p 84 | 4 | " |
| *Hebrew 1b, p 86 | 4 | " |
| "German lc, ld, p 98 | 4 | n |
| *French 1g, p 98 | 4 | ** |
| *Greek and Roman History 1, p 85 | 1 | ** |
| *English 1a, 1b, p 89 | 2 | " |
| *Philosophy 1a, p 116 or †1b, p 119 | 2 | " |
| SECOND YEAR | | |

| English 2a, 2b, p 89 | 2 hours |
|----------------------------------|---------|
| One of Greek 2a or 2b, p 81 | 3 " |
| Greek and Roman History 2a, p 85 | 2 " |
| Hebrew 2b, p 86 | 3 " |

†St Michael's College

| | SECOND YEAR-Continued | | |
|--------|---|----|------|
| | History 2a, 2b, p 100 | 3 | hour |
| | Philosophy 5, p 118 | 2 | ** |
| | Religious Knowledge 2a or 2b or 2c or 2d or 2e, p 155 | 2 | ** |
| | Military Studies 1, p 156 | 2 | 11 |
| *Phile | sophy 2b, 2c, 2d, pp 116, 117 or †2f, 2g, 2h, 2i, 2l, p 119 | 5 | 11 |
| | hology 2d, 2f, 2h, p 122 or †*Philosophy 2j, 2k, p 119 | 3 | 11 |
| | THIRD YEAR | | |
| One o | f English 3a, 3b, p 89 | 3 | hour |
| | Greek 3a, p 81 | 3 | 41 |
| | Hebrew 3b, p 86 | 3 | ** |
| | Philosophy 5, p 118 | 2 | ** |
| | Religious Knowledge 3a or 3b or 3c or 3d or 3e or 3f, p 155 | 3 | ** |
| | Military Studies 2, p 156 | 3 | ** |
| Politi | cal Economy 3f, p 110 | 2 | ** |
| | osophy 3c, 3d, 3e, p 117 and *Psychology 3c, 3g, p 122, or | 9 | ** |
| | losophy 31, 31, 3k, 3l, 3m, 3n, 3o, p 120 and | 10 | ** |
| | chology 1, p 121 | 1 | 44 |
| | FOURTH YEAR | | |
| One | of English 4a, 4b, p 90 | 3 | hour |
| | Greek 4a, p 81 | 3 | " |
| | Hebrew 4b, p 86 | 8 | ** |
| | Political Economy 4e, p 111 | 2 | ** |
| | Philosophy 5, p 118 | 2 | " |
| | Religious Knowledge 4a or 4b or 4c or 4d or 4e or 4f, p 156 | 8 | " |
| | Military Studies 3, p 157 | 3 | " |
| | | | |

PHILOSOPHY (ENGLISH OR HISTORY OPTION)

11

11

ENTRANCE CONDITIONS

*Philosophy 4c, 4d, 4e, 4f, 4g, pp 117, 118 and *Psychology 4b,

*†Philosophy 41, 4k, 4l, 4m, 4n, 4o, 4p, 4q, 4r, pp 120, 121

A candidate for admission to the First Year of the Honour Course in Philosophy (English or History Option) must present, in addition to complete Pass Matriculation standing, certificates giving him credit at the Honour Matriculation or an equivalent examination in the following five subjects-Latin, Mathematics (Algebra and Geometry), one of History, English, Physics, one of Greek, French, German, together with an additional subject

A student admitted to this course on probation by special petition, who has not fulfilled all the entrance requirements, must do so at the examination of the First Year See Sections 33-35, p 19

†St Michael's College

p 122. or

FIRST YEAR General Science 1, p 135 3 hours One of Mathematics 1c, p 123 1 11 Religious Knowledge 1a or 1b or 1c or 1d, p 155 1 . One of *Greek 1g, p 82 11 *Latin 1d. p 84 416 *Hebrew 1b, p 86 *German 1c. 1d. p. 93 *French 1g, p 98 *Greek and Roman History 1, p 85 1 *English 1a, 1c, 1d, p 90 2 " *History 1c. p 101 2 " *Philosophy 1a, p 116 or 11b, p 119 2 " SECOND YEAR Political Economy 2d, pp. 108, 109 1 hour One of Philosophy 5, p 118 2 " Religious Knowledge 2a or 2b or 2c or 2d or 2e, p 155 2 " Military Studies 1, p 156 2 44 4 .. *English 2a, 2b, 2c, p 90 *History 2d, 2e, p 102 4 . *Philosophy 2c, 2d, p 117, or †2f, 2g, 2h, p 119 3 " 9 11 *Psychology 2d, 2f, p 122 or *†Philosophy 2l, p 119 THIRD YEAR One of Philosophy 5, p. 118 3 hours Psychology 3a, 3f, pp 121, 122 or †Philosophy 3l, p 120 Religious Knowledge 3a or 3b or 3c or 3d or 8e or 3f, p 155 3 Military Studies 2, p 156 8 ** One of *English 3d, 3e, p 91 5 " *History 3c, 3d, p 103, 104 4 " *Philosophy 3c, 3d, 3e, p 117 or †3i, 3i, 3m, 3o, p 120 8 " FOURTH YEAR One of Political Economy 4e, p. 111 2 hours Philosophy 5, p 118 " Psychology 4a, p 122 or †Philosophy 4m, 4n, p 120 3 3 " Religious Knowledge 4a or 4b or 4c or 4d or 4e or 4f, p. 156 Military Studies 3, p 157 3 10 5 40 One of *English 4b, 4d, p 91 *History 4d, 4e, pp 104, 105 3 " *Philosophy 4c, 4e or 4g, pp 117, 118 or †41, 4k, 4l, 4o, 4p, pp 120, 121

†St Michael's College

PSYCHOLOGY

The Entrance Conditions and the First Year prescription of this course will be found under the course in Science, page 187

SECOND VEAR

| ORCORD I MILI | | |
|---|-----|-------|
| English 2a, 2b, p 89 | 2 1 | hours |
| One of German 2b, p 92 | 2 | ** |
| French 2b, p 95 | 2 | ** |
| One of Political Economy 2d, pp 108, 109 | 1 | н |
| Religious Knowledge 2a or 2b or 2c or 2d or 2e, p 155 | 2 | ** |
| Military Studies I, p 156 | 2 | 44 |
| *Philosophy 2c, p 117 | 1 | ** |
| *Psychology 2d, 2f, 2g, p 122 | 4 | 0 |
| *Mathematics 1k, 1l, p 126 | 2 | 11 |
| *Physics 3b, 4, 5, 6 part, pp 129, 130 | 5 | ** |
| *Zoology 7 part, p 136 | 4 | ** |

THIRD YEAR

| A | i reading knowledge of French and German for scientific purpose | 5 | |
|---|---|---|-------|
| 1 | wo of Mathematics | 3 | hours |
| | Political Economy | 3 | ** |
| | Religious Knowledge | 3 | ** |
| | Military Studies | 8 | 44 |

| *Philosophy | 2 | ** |
|--------------------------------|---|----|
| *Psychology | 8 | ** |
| *Anatomy of the Special Senses | 4 | " |
| *Physiology | 4 | ** |

FOURTH VEAR

| A reading knowledge of French and German for scientific purposes | | |
|--|----|-------|
| One of Political Economy | 3 | hours |
| Religious Knowledge | 8 | ** |
| Military Studies | 3 | " |
| *Philosophy | 2 | ** |
| *Psychology | 14 | " |
| *Zoology | 2 | ** |

MATHEMATICS

ENTRANCE CONDITIONS

A candidate for admission to the First Year of the Honour Course in Mathematics must present, in addition to complete Pass Matriculation on standing, certificates giving him credit at the Honour Matriculation or an equivalent examination in the following five subjects—Latin, Mathematics (Algebra and Geometry, Trigonometry), Physics, and French or German

It is recommended that French be taken at Matriculation, but it is to be kept in mind that a reading knowledge of both German and French will be necessary in the Third and Fourth Years

A student admitted to this course on probation by special petition, who has not fulfilled all the entrance conditions, must do so at the examination of the First Year See Sections 33.5, p. 19

D---- 17---

| English 1a, 1b, p 89 | 2 hour |
|---|--------|
| | 4 11 |
| One of German 1a, p 92 | |
| French 1a, p 95 | 4 " |
| One of Greek and Roman History 1, p 85 | 1 " |
| Religious Knowledge 1a or 1b or 1c or 1d, p 155 | 1 " |
| *Mathematics 1e, 1f, 1g, 1h, p 124 | 635" |
| *Actuarial Science Ia, p 127 | 1 " |
| *Physics 1, 2, p 129 | 6 " |
| *Chemistry 1, 14, pp 147, 148 | 4 " |

SECOND VEAD

| English 2a, 2b, p 89 | 2 hours |
|---|---------|
| One of German 2b, p 92 | 2 " |
| French 2b, p. 95 | 2 " |
| One of History 2a, p 100 | 2 " |
| Political Economy 2a, p. 108 | 2 " |
| Religious Knowledge 2a or 2b or 2c or 2d or 2e, p 155 | 2 " |
| Military Studies 1, p. 156 | 2 " |
| *Mathematics 2d, 2e, 2f, 2g, p 124 | 9 " |
| *Mechanics 2a, p 126 | 1 " |
| *Actuarial Science 2c, 2d, p 127 | 2 " |
| *Physics 4, 5, 6 part, pp 129, 130 | 41/2" |

| THIRD YEAR | | | |
|---|-----|-----|----|
| One of History 3a, p 101 | 2 | ho | ur |
| Political Economy 3b, p 109 | 3 | | |
| Religious Knowledge 3a or 3b or 3c or 3d or 3e or 3f, p 155 | 3 | . 4 | ı. |
| Military Studies 2, p 156 | 3 | | ** |
| *Mathematics 3c, 3d (without examination), 3e, 3f, 3g, pp 124, 12 | 5 9 | | 44 |
| *Mechanics 3b, 3c, pp 126, 127 | 3 | | 4 |
| One of *Actuarial Science 3a, p. 127 | 2 | . ' | |
| *Astronomy 2, 3, p. 128 | 4 | | ** |
| *Physics 3a, 6 part, pp 129, 130 | 3 | 3/2 | ** |

FOURTH YEAR

| One of History 4a, 4b, p 101 | 2 | hours |
|---|---|-------|
| Political Economy 4c, p 111 | 2 | ** |
| Religious Knowledge 4a or 4b or 4c or 4d or 4e or 4f, p 156 | 2 | " |
| Military Studies 3, p 157 | 3 | " |
| One of *Mathematics 4f, p 125 | 2 | 4 |
| *Mechanics 4a, p 127 | 2 | и |
| *Actuarial Science 4a, p 127 | 2 | и |
| *Astronomy 4, p 128 | 2 | ** |
| *Physics, one of 12, 13, 20, 21, 26 part, or two of 14, 15, | | |
| 22, 23, 24, pp 131, 132 | 2 | ** |
| Three of *Mathematics 4d, 4h, 4i, 4l, pp 125, 126 | 9 | " |
| | | |

MATHEMATICS AND PHYSICS

ENTRANCE CONDITIONS

A candidate for admission to the First Year of the Honour Course in Mathematics and Physics must present, in addition to complete Pass Matriculation standing, certificates giving him credit at the Honour Matriculation or an equivalent examination in the following five subjects— Latin, Mathematics (Algebra and Geometry, Trigonometry), Physics, and French or German.

A student admitted to this course on probation by special petition, who has not fulfilled all the entrance conditions, must do so at the examination of the First Year See Sections 33-35, p 19

FIRST VEAR

| English 1a, 1b, p 89 | 2 | hou | 1 |
|---|---|-----|---|
| One of German 1a, p 92 | 4 | 11 | |
| French 1a, p 95 | 4 | " | |
| One of Greek and Roman History 1, p 85 | 1 | ** | |
| Religious Knowledge 1a or 1b or 1c or 1d, p 155 | 1 | ** | |
| *Mathematics 1e, 1g, 1h, 1i, p 124 | 5 | 11 | |
| *Actuarial Science 1a, p 127 | 1 | ** | |
| *Physics 1, 2, 18 part, pp 129, 131 | 7 | " | |
| *Chemistry 1, 14, pp 147, 148 | 4 | ** | |
| | | | |

| Second Year | | |
|---|---|-------|
| English 2a, 2b, p 89 | 2 | hours |
| One of German 2a, p 92 | 3 | 64 |
| French 2a, p 95 | 3 | ** |
| One of History 2a, p 100 | 2 | ** |
| Religious Knowledge 2a or 2b or 2c or 2d or 2e, p 155 | 2 | 44 |
| Military Studies 1, p 156 | 2 | 64 |

^{*}Honours

| SECOND YEAR-Continued | | |
|---|---|----------|
| *Mathematics 2d, 2e, 2f, p. 124 One of 'Mathematics 2g part, p. 124 | 6 hos 1 " 2 " 1 " 9 " | |
| THIRD YEAR | | |
| One of History 3a, p. 101 Mathematics 3b, p. 123 and Physics 20 part, p. 132 Religious Knowledge 3a or 3b or 3c or 3d or 3c or 3f, p. 155 World History 1 or 2, p. 166 Multirary Studies 2, p. 156 *Mathematics 3c, 3d (without examination), pp. 124, 125 Two of "Actural Scence 3a, p. 127 *Physics 14, p. 131 *Physics 15, p. 131 *Mechanics 3b, 3c, 4a, p. 126, 127 *Astronomy 2, 3, p. 128 *Physics 12, 13, 17, p. 131 | 2 ho 1 " 3 ' 2 ' 2 ' 1 ' 1 ' 3 ' 4 ' 9 '/' | |
| FOURTH YEAR | | |
| One of History 4a, 4b, p 101 Mathematics 4c, p 124 and Physics 29 part, p 132 Religious Knowledge 4a or 4b or 4c or 4d or 4e or 4f, p 156 World History 1 or 2, p 156 Military Studies 3, p 157 One of the following divisions | 2 | our |
| Division I.—Mathematics Five of *Mathematics 4d, 4e, 4f, 4g, 4h, 4i, 4j, p 125, *Astronomy p 128, the choice to be determined by the Department One of *Mathematics 4k, p 125 *Acturand Science 4a, p 127 | 10 h | our " |
| District II—Physics One of "Mechanics 4c, p. 127 | ½ 1 17 | " |

CALENDAR FOR 1924-1925

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| Division III.—Astronomy and Physics | |
|--------------------------------------|---------|
| *Mathematics 4d, p 125 | 2 hours |
| *Mechanics 4b, 4c, p 127 | 235" |
| *Astronomy 4, 5, 6, 7, 8, p 128 | 151/2" |
| *Physics 20, 27 (Light), pp 131, 132 | 4 " |

Candidates in the Astronomy and Physics Division are required to take the lectures of Course 20 during the Michaelmas Term and laboratory work in Optics of Course 27 for two afternoons a week during the Michaelmas Term.

†Students may qualify for admission to Division III of the Fourth Year of this course by completing the first three years of the Honour Course in Mathematics

SCIENCE

ENTRANCE CONDITIONS

It is to be noted that the Entrance Conditions and First Year prescription are common to all the following Science Courses Physics, Biology, Physiology and Biochemistry, Biological and Medical Sciences, Chemistry and Mineralogy, Chemistry, Geology and Mineralogy, Science (General) and Psychology

A candidate for admission to the First Year of any of the above Honour Courses must present, in addition to complete Fass Matriculation standing, and certificates giving him credit at the Honour Matriculation or an equivalent measuramentor in the following five subjects—Latin; Mathematics (Algebra and Geometry, Trigonometry), French or German, and one of Physics, Biolory. Chemistry

A student admitted to this course on probation by special petition, who has not fulfilled all the entrance conditions, must do so at the examination of the First Year See Sections 33-35, p. 19

FIRST YRAR

| English 1a, 1b, p 89 | | | 2 hour | , |
|---|----|---|--------|---|
| German 1b, p. 92 | | | 2 " | |
| French 1c, p. 95 | 1 | | 2 . | |
| One of Mathematics 1c, p 123 | | | 1 " | |
| Religious Knowledge 1a or 1b or 1c or 1d, p 1 | 55 | | 1 " | |
| *Physics 1, 2, 18, pp 129, 131 | | | 634" | |
| *Zoology 5, 6, p 136 | | | 31/" | |
| *Botany 5, 6, pp 140, 141 | | , | 31/4" | |
| *Chemistry 1, 13, pp 147, 148 | | | 636" | |
| *Geology and Palaeontology 1, p 149 | | | 1 " |) |

2 hours

10

1 hour

3 hours

17 "

PHYSICS

The Entrance Conditions and First Year prescription of this course will be found under the course in Science, page 187.

One of English 2a, 2b, p 89 German 2b, p 92 French 2b, p 95

Religious Knowledge 2a or 2b or 2c or 2d or 2e, p 155 2 "
Military Studies 1, p 156 2 "
A reading knowledge of French and German for scientific purposes

*Mathematics 1g, 2c, p 124 4 "
*Physics 3a, 4, 5, 6, p 129, 130 9 "
*Chemistry 3, 7, 15, 24, p 148 8 "

THIRD YEAR

A student in the Faculty of Arts who has completed the Second Year in the Honour Course of Mathematics or Chemistry or Chemistry and Mineralogy, may enter the Third Year of the Honour Course in Physics

A student in the Faculty of Applied Sennee and Engineering, who has passed the examination of the First and Second Vears with honours in any one of the Departments of Civil, Mining, Mechanical, Chennical, Electrical and Metallurgual Engineering, may enter the Third Year of the Honour Course in Physics, provided that he has met the language requirements of the First Year of that course with respect to Latin, Engish and Freach or German at the Honour Matriculation or equivalent examination

One of Physics 29 part, p 132 Religious Knowledge 3a or 3b or 3c or 3d or 3e or 3f, p 155

*Physics 20, 21, 22 or 24, 23, 25, 26, 27, pp 131, 132

Military Studies 2, p. 156 A reading knowledge of French and German for scientific purposes

*Mathematics 2f first half, 3c, p 124 2

*Mechanics 3b, 3c, pp 126, 127 3

*Physics 12, 13, 14, 15, 17, p 131 11

FOURTH YEAR

BIOLOGY

The Entrance Conditions and First Year prescription of this course will be found under the course in Science, page 187

SECOND YEAR

rs

| English 2a, 2b, p 89 | 2 | hour |
|---|---|------|
| †One of German 2b, p 92 | 2 | 11 |
| French 2b, p 95 | 2 | " |
| Religious Knowledge 2a or 2b or 2c or 2d or 2e, p 155 | 2 | " |
| Military Studies 1, p 156 | 2 | " |
| *Physics 3b, 4, 5, 6, pp 129, 130 | 7 | 11 |
| *Zoology 9, p 136 | 4 | 11 |
| *Botany 7, 9, p 141 | 4 | ** |
| *Chemistry 8, 7, 15, 24, p 148 | 8 | ** |
| *Geology and Palaeontology 6, 7, p 150 | 8 | ** |

THIRD YEAR

| One of English 3a, 3b, p 89 | 3 | hours |
|---|---|-------|
| Astronomy 2, p 128 | 2 | 44 |
| Religious Knowledge 3a or 3b or 3c or 3d or 3e or 3f, p 155 | 3 | ** |
| Military Studies 2, p 156 | 3 | ** |
| *Zoology 7, 8, 12, 13, pp 136, 137 | 9 | и |
| *Botany 14, 17, pp 141, 142 | 9 | 11 |
| *Biochemistry 1, 3, p 144 | 7 | ** |

FOURTH YEAR

| One of Zoology 15a, p 137 (History of Biological Science) | 2 | hours |
|---|---|-------|
| Religious Knowledge 4a or 4b or 4c or 4d or 4e or 4f, p 156 | 3 | ** |
| Military Studies 3, p. 157 | 8 | ** |

*Zoology 19, p 137 *Botany 16, p 142

*Zoology 15, p 137 or *Botany 20, p 142

A selection of twenty hours from the following divisions, subject to the approval of the Department and the conditions set forth pelow

Division I-Zoology

*Zoology 14, 16, 17, 18 and 18a, 20, 21, 22, 23, pp 187, 188 each 4 hours

Division II-Botany

*Botany 18 or 19, 10 or 11, 14, 20a, 22, 8 and 15, 8 and 28,

pp 141, 142 each 4 hours
At least one course must be taken in each division The four remaining courses may be taken in one or both divisions

*Honours

†The selection of the language must be approved by the Staff in Biology

2 hours

. ...

Special work in one subject already selected may be substituted for one course otherwise necessary $% \left(1\right) =\left\{ 1\right\}$

Students may in exceptional cases substitute for one of the courses a course of corresponding standard in another department

Note—Students proceeding to graduate or special work, in which an acquantance with the original literature is required, are advised to seek proficiency in reading scientific French and German during their undergraduate course

PHYSIOLOGY AND BIOCHEMISTRY

The Entrance Conditions and First Year prescription of this course will be found under the course in Science, page 187

The curriculum of this course in the First and Second Years is the same as that for Biological and Medical Sciences (the combined course in Arts and Medicine) During the Third and Fourth Years the curriculum is arranged for specialization in Physiology and Biochemistry without reference to Medicine

SECOND YEAR

| Mathematics 1K, 1I, p 126 | Z | |
|---|---|-------|
| One of German 2b, p 92 | 2 | ** |
| French 2b, p 95 | 2 | ** |
| Religious Knowledge 2a or 2b or 2c or 2d or 2e, p 155 | 2 | ** |
| Military Studies 1, p 156 | 2 | 44 |
| *Physics 3b, 4, 5, 6, pp 129, 130 | 7 | ** |
| *Zoology 7, 8, p 186 | 7 | ** |
| *Chemistry 3, 7, 15, 24, p 148 | 8 | ** |
| THIRD YEAR | | |
| One of †Astronomy 2, p 128 | 2 | hours |
| †Zoology 15a, p 137 (History of Biological Science) | 2 | 44 |
| Religious Knowledge 3a or 3b or 3c or 3d or 3e or 3f, p 155 | 3 | 41 |
| Military Studies 2, p. 156 | 3 | ** |
| Mathematics 2h, p 126 | 2 | " |
| A reading knowledge of Scientific French or German | | |
| *Zoology 27, 29, pp 138, 139 | 6 | " |
| *Biochemistry 1, 3, p 144 | 7 | " |

†If either of these subjects is taken in the Third Year it cannot constitute an option in the Fourth Year

*Physiology 1, 2, 5, p 146 *Physics 25, p 132 *Chemistry 4, 19 part, p 148

English 2a, 2b, p 89

^{*}Honours

FOURTH YEAR

| One of †Astronomy 2, p 128 | 2 } | hours | |
|---|-----|-------|--|
| [†] Zoology 15a, p 137 (History of Biological Science) | 2 | 44 | |
| Religious Knowledge 4a or 4b or 4c or 4d or 4e or 4f, p 156 | 3 | ** | |
| Military Studies 3, p. 157 | 3 | 44 | |
| A reading knowledge of Scientific French or German | | | |
| Mathematics 3h, p 126 | 2 | 44 | |
| *Physics 19, p 131 | 2 | 44 | |
| *Botany 17, p 142 | 4 | 44 | |
| One of the following divisions | | | |
| Dunsion I—Biochemistry | | | |
| *Chemistry 20 part, p 148 | 3 1 | ours | |
| *Biochemistry 2, 4, 5, p 144 | 8 | ** | |
| *Special work in Biochemistry or Zymology or Organic Chemistry | , | | |
| or Physical Chemistry | 10 | 44 | |
| Division II—Physiology | | | |
| *D 1 | - | 44 | |

*Biochemistry 2, 4 part, p 144 5 "
*Physiology 8, 4, 6, 8, p 146 16 "
†If either of these subjects is taken in the Third Year it cannot constitute an ootion in the Fourth Year

BIOLOGICAL AND MEDICAL SCIENCES

The Entrance Conditions and First Year prescription of this course will be found under the course in Science, page 187

SECOND YEAR

| English 2a, 2b, p 89 | 2 | hour |
|---|---|------|
| Mathematics 1k, 1l, p 126 | 2 | 64 |
| One of German 2b, p 92 | 2 | 44 |
| French 2b, p 95 | 2 | 44 |
| †Psychology 2c, p 121 | 2 | 44 |
| Religious Knowledge 2a or 2b or 2c or 2d or 2e, p 155 | 2 | ** |
| Military Studies 1, p 156 | 2 | ** |
| *Physics 3b, 4, 5, 6, pp 129, 130 | 7 | 44 |
| *Zoology 7, 8, p 136 | 7 | ** |
| *Chemistry 3, 7, 15, 24, p 148 | 8 | ** |

| THIRD YEAR | | |
|---|----|-------|
| One of †Psychology 3e, p 122 | 2 | hours |
| Mathematics 2h, p 126 | 2 | 44 |
| Religious Knowledge 3a or 3b or 3c or 3d or 3e or 3f, p 155 | 3 | 44 |
| Military Studies 2, p 156 | 8 | 11 |
| *Anatomy 1, 2, 3, p 143 | 21 | 44 |
| *Biochemistry 1, n 144 | 2 | 44 |

^{*}Honours

*Physiology 2, 5, p 146

FORETH VEAR

One of AD-only-land

| One of [Fsychology | - 2 | nou | r |
|---|-----|-----|---|
| Mathematics 3h, p 126 | 2 | *4 | |
| Zoology 15a, p 137 (History of Biological Science) | 2 | ** | |
| Religious Knowledge 4a or 4b or 4c or 4d or 4e or 4f, p 156 | 3 | " | |
| Military Studies 3, p 157 | 3 | " | |
| *Anatomy 4, 5, p 143 | 4 | ** | |
| *Biochemistry 3, 5, p 144 | 7 | ** | |
| *Physiology 1, 3, 4, 6, 8, p 146 | 10 | ** | |
| *Bacteriology. Third Year course in the Faculty of Medicine | 43 | ¿" | |
| *Special work in one subject to be arranged with head of departme | nt | | |
| of subject elected by student | 6 | ** | |
| | | | |

†A student desiring to take special honour work in Psychology in the Fourth Year must have credit for Psychology 2c and 3e before he enters the Fourth Year A student who was unable to take Psychology 2c in the Second Year, may with the consent of the staff, take that course in the Third Year instead of Psychology 3e which he must then take in the Fourth Year

CHEMISTRY AND MINERALOGY Tt. P. Conditions and Funt Very processors

| be found under the course in Science, page 187 | | |
|---|----|-------|
| SECOND YEAR | | |
| English 2a, 2b, p 89 | 21 | hours |
| †One of German 2b, p 92 | 2 | ** |
| French 2b, p 95 | 2 | ** |
| One of Chemistry 6b, p 148 | | |
| Religious Knowledge 2a or 2b or 2c or 2d or 2e, p 155 | 2 | ** |
| Military Studies 1, p. 156 | 2 | " |
| *Mathematics 2c, p 124 | 2 | ** |
| *Physics 3a, 4, 5, p 129 | 3 | ** |
| *Chemistry 3, 7, 9, 16, p 148 | | |
| *Geology and Palaeontology 6, 7, p 150 | 3 | ш, |
| *Mineralogy and Petrography 1, 3, 4, pp 151, 152 | 5 | ** |

| Keligious Knowledge 2a or 2b or 2c or 2d or 2e, p 105 | Z | |
|---|----|-------|
| Military Studies 1, p. 156 | 2 | ., |
| *Mathematics 2c. p 124 | 2 | ** |
| *Physics 3a, 4, 5, p 129 | 3 | ** |
| *Chemistry 3, 7, 9, 16, p 148 | | |
| *Geology and Palacontology 6, 7, p 150 | 3 | и, |
| *Mineralogy and Petrography 1, 3, 4, pp 151, 152 | 5 | ** |
| DIVISION I -THIRD YEAR | | |
| A reading knowledge of French and German for scientific purposes | s | |
| One of History 3a, p 101 | 2 | hours |
| Chemistry 6b, p. 148 | | |
| Religious Knowledge 3a or 3b or 3c or 3d or 3e or 3f, p 155 | 3 | ** |
| Military Studies 2, p 156 | 3 | " |
| *Honours | | |
| †Selection to be approved by the Staff in Chemistry and Mineralog | 3' | |
| | | |
| | | |

ONLY OF TORONTO

| THIRD YEAR-Continued | | |
|--|---|-------|
| *Mathematics 3c, p 124 | 1 | hour |
| *Physics 6, p 130 | 6 | hours |
| *Chemistry 4, 8, 10, 12a, 19, 20, p 148 | | |
| *Mineralogy and Petrography 6, p 152 | 2 | ** |
| Division I.—Fourth Year | | |
| A reading knowledge of French and German for scientific purposes | | |
| One of History 4a, 4b, p 101 | 2 | hours |
| Chemistry 6b, p 148 | | |
| Religious Knowledge 4a or 4b or 4c or 4d or 4e or 4f, p 156 | 3 | " |
| Military Studies 3, p 157 | 3 | ** |

One of *Zoology 9, 12, p 136, and *Botany 7, 9, p 141
A defined part of *Chemistry 21, p 148
*Chemistry 5, 6a, 11, 21, p 148

*Physics 16, p 131

| DIVISION II —THIRD YEAR | | | |
|--|--------|-----|-------|
| One of English 3a, 3b, p 89 | | 3 1 | hours |
| Astronomy 2, p 128 | | 2 | ** |
| Religious Knowledge 3a or 3b or 3c or 3d or 3e or 3f, p | 155 | 3 | ** |
| Military Studies 2, p 156 | | 3 | ** |
| A reading knowledge of French and German for scientific pu | rposes | | |
| *Physics 6, p 130 | | 6 | ш |
| *Chemistry 8, p 148 | | | |
| *Geology and Palaeontology 8, 9, 10, 11, p 150 | | 9 | ** |
| *Mineralogy and Petrography 5, 6, 7, 8, 11, p 152 | 1 | 9 | ** |

DIVISION II -FOURTH YEAR

| One of English 4a, 4b, p 90 | 2 | hours |
|--|----|-------|
| Mineralogy 15, p 152 | 2 | 44 |
| Religious Knowledge 4a or 4b or 4c or 4d or 4e or 4f, p 156 | 3 | ш |
| Military Studies 3, p 157 | 3 | ** |
| A reading knowledge of French and German for scientific purposes | 8 | |
| One of *Zoology 9, 12, p 136, and *Botany 7, 9, p. 141 | 4 | u |
| *Geology and Palaeontology 14, 16, p 151 | 5 | ** |
| *Geology and Palaeontology 12, 13, 15, 19, 20, pp 150, 151 | 8 | 44 |
| *Mineralogy and Petrography 9, 10, 12, 13, 14, p 152 | 14 | |
| *Honours | | |

CHEMISTRY

The Entrance Conditions and First Year prescription of this course will be found under the course in Science, page 187

SECOND YEAR

| English 2a, 2b, p 89 | 2 | hour |
|---|---|------|
| †One of German 2b, p 92 | 2 | ** |
| French 2b, p 95 | 2 | ** |
| One of Chemistry 6b, p 148 | | |
| Religious Knowledge 2a or 2b or 2c or 2d or 2e, p 155 | 2 | 44 |
| Military Studies 1, p 156 | 2 | ** |
| *Mathematics 2c. p 124 | 2 | ** |
| *Physics 3a, 4, 5, p 129 | 3 | ** |
| *Chemistry 3, 7, 9, 16, 17, p 148 | | |
| *Mineralogy and Petrography 1, 2, p 151 | 2 | " |

THIRD YEAR

| A reading knowledge of French and German for scientific purposes | | |
|--|---------|--|
| One of Chemistry 6b, p 148 | | |
| Religious Knowledge 3a or 3b or 3c or 3d or 3e or 3f, p 155 | 3 hours | |
| Military Studies 2, p. 156 | 8 " | |
| *Mathematics 3c, p 124 | 1 " | |
| *Chemistry 4, 8, 10, 12a, 12b, 19, 20, p 148 | | |
| *Mineralogy and Petrography 3, p 151 | 1 " | |

FOURTH YEAR

| A reading knowledge of French and German for scientific purpose | 3 |
|---|---------|
| One of Chemistry 6b, p 148 | |
| Religious Knowledge 4a or 4b or 4c or 4d or 4e or 4f, p 156 | 3 hours |
| Military Studies 3, p. 157 | 3 " |

*Chemistry 5, 6a, 11, 21, p 148

GEOLOGY AND MINERALOGY

The Entrance Conditions and First Year prescription of this course will be found under the course in Science, page 187

SECOND YEAR

| English 2a, 2b, p 89 | 2 | hours |
|--|----|-------|
| †One of German 2b, p 92 | 2 | ** |
| French 2b, p 95 | 2 | 11 |
| One of Geology and Palaeontology 17, p 151 | 7 | 44 |
| Mathematics 2c, p 124 | 2 | 44 |
| Religious Knowledge 2a or 2b or 2c or 2d or 2e, p 155 | 2 | |
| Military Studies 1, p. 156 | .2 | ** |
| *Physics 3b, 4, 5, 6, p 129, 130 | 7 | ** |
| *Zoology 9, p 136 | 4 | ** |
| *Botany 7, p. 141 | 3 | ** |
| *Chemistry 3, 7, 15, 24, p 148 | 8 | ** |
| *Geology and Palacontology 6, 7, p 150 | 3 | 11 |
| *Mineralogy and Petrography 1, 2, p 151 | 2 | " |
| THIRD YEAR | | |
| One of English 3a, 3b, p 89 | 3 | hours |
| Religious Knowledge 3a or 3b or 3c or 3d or 3e or 3f, p 155 | 3 | 16 |
| Military Studies, 2, p 156 | 3 | 41 |
| A reading knowledge of French and German for scientific purposes | Ī | |

| *Geology and Palaeontology 8, 9, 10, 11, p 150 | 9 | ** |
|--|----|-------|
| *Mineralogy and Petrography, 3, 4, 6, 8, 11, pp 151, 152 | 9 | ** |
| The second secon | | |
| FOURTH YEAR | | |
| One of English 4a, 4b, p 90 | 3 | hours |
| Religious Knowledge 4a or 4b or 4c or 4d or 4e or 4f, p 156 | 3 | ** |
| Military Studies 3, p. 157 | 3 | - |
| A reading knowledge of French and German for scientific purpose | s | |
| One of *Zoology 23 part, p 138 and *Botany 8, 15, pp 141, 142 | 3 | 11 |
| *Geology and Palacontology 14, p 151 and *Mineralogy as | ad | |
| Petrography 14, p 152 | 3 | ** |
| *Geology and Palaeontology 12, 13, 15, 16, 18, 19, 20, 22, pp 15 | O. | |
| 151 | 12 | 44 |
| *Mineralogy and Petrography 5, 7, 9, 12, 13, p 152 | 11 | ** |
| | | |

†Selection to be approved by the Staff in Geology and Mineralogy

SCIENCE (GENERAL)

The Entrance Conditions and First Year prescription of this course will be found under the course in Science, page 187

SECOND YEAR English 2a, 2b, p 89 2 hours One of German 2b, p 92 French 2b, p. 95 2 " Religious Knowledge 2a or 2b or 2c or 2d or 2e, p. 155 Military Studies 1, p 156 2 " 2 " *Mathematics 2c. p. 124 *Physics 3b, 6 part, pp 129, 130 4 4 " *Zoology 9, p 136 *Botany 7, 9, p 141 4 " ē " *Chemistry 7, 15, p 148 *Geology and Palaeontology 6, 7, p 150 8 " 2 " *Mineralogy and Petrography 1, 2, p 151 THIRD YEAR One of History 3a, p 101 2 hours Religious Knowledge 3a or 3b or 3c or 3d or 3e or 3f, n 155 8 " 3 " Military Studies 2, p. 156 *Astronomy 2, p 128 2 8 " *Physics 4, 5, 6 part, 13, 17 part, pp 129-131 3 *Zoology 7 part, 12, p 136 4 " *Botany 17, p 142 2 *Chemistry 3, p 148 2 *Geology and Palaeontology 8, p 150 *Mineralogy and Petrography 3, 4, pp 151, 152 FOURTH YEAR One of History 4a, 4b, p 101 2 hours Religious Knowledge 4a or 4b or 4c or 4d or 4e or 4f. p. 156 2 **

```
**Mittary Shudees 9, p 167 3

**Astronomy 8, p 188 9, p 187

**Physics (to be selected) 4

**Physics (to be selected) 4

**Chemistry 8, 25, pp 184, 149 4

**Chemistry 8, 25, pp 184, 149 4

**Checkgy and Petrography 6 part, 11, p 152 }

**Mineralogy and Petrography 6 part, 11, p 152 }

One of "Physics (to be selected) 4

**Shatary 100 per 14, 20, no 141, 142 4

**The state of the selected 14, 142 4

**The state of the state of the selected 14, 142 4

**The state of the selected 14,
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*Chemistry (to be selected)
*Geology and Palaeontology 15, 16, p 151

HOUSEHOLD SCIENCE

A candidate for admission to the First Year of the Honour Course in Household Science must present, in addition to complete Pass Matriculation standing, certificates giving her credit at the Honour Matriculation or an equivalent examination in the following five subjects—Latin, Mathematics (Algebra and Geometry, Troponometry), French or German, and one of Physics, Biolovic, Chemistry

A student admitted to this course on probation by special petition, who has not fulfilled all the entrance conditions, must do so at the examination of the First Year See Sections 33-35, p 19

FIRST YEAR

| PIROI I ANN | | | |
|---|---------|--|--|
| English 1a, 1b, p 89 | 2 hours | | |
| German 1b, p 92 | 2 " | | |
| French 1c, p 95 | 2 " | | |
| One of Mathematics 1c, p 123 | 1 " | | |
| Religious Knowledge la or 1b or 1c or 1d, p 155 | 1 " | | |
| *Physics 1, 2, 18, pp 129, 131 | 6¾" | | |
| *Zoology 5, 6, p 136 | 3¾" | | |
| *Botany 5, 6, pp 140, 141 | 31/4" | | |
| *Chemistry 1, 13, pp 147, 148 | 6¾" | | |
| *Household Science 1b, p 153 | 1 " | | |

SECOND YEAR

| English 2a, 2b, p 89 | 2 | hours |
|---|---|-------|
| One of German 2b, p 92 | 2 | 44 |
| French 2b, p 95 | 2 | ** |
| Religious Knowledge 2a or 2b or 2c or 2d or 2e, p 155 | 2 | ** |
| *Physics 3b, 4, 5, 6, p 129, 130 | 7 | 44 |
| *Zoology 10, p 136 | 2 | ** |
| *Botany 13, p 141 | 2 | 64 |
| *Chemistry 3, 7, 15, 24, p 148 | 8 | 44 |
| *Household Science 2 part, p 153 | 6 | 44 |

THIRD YEAR

2 hours

| History 3a, p 101 | 2 | 11 |
|---|----|----|
| Religious Knowledge 3a or 3b or 3c or 3d or 3e or 3f, p 155 | 3 | 44 |
| *Physiology 2, 5, p 146 | 4 | 11 |
| *Biochemistry 1, 3, p 144 | 7 | ш |
| *Household Science 3b, p 153 | 12 | 44 |
| *Hygrene and Sanitation | - | 14 |

One of English 3a, 3b, p. 89

FOURTH YEAR

| One of English 4a, 4b, p 90 | 3 1 | hours |
|---|-----|-------|
| History 4a, 4b, p 101 | 2 | ** |
| Religious Knowledge 4a or 4b or 4c or 4d or 4e or 4f, p 156 | 3 | 11 |
| *Food Chemistry 1, 3, p 145 | 10 | ** |
| *Household Science 4b, 4c, 4d, p 153 | 10 | " |

HOUSEHOLD ECONOMICS

ENTRANCE CONDITIONS

A candidate for admission to the First Year of the Honour Course in Honoschold Economyce must present, an addition to complete Pass Matriculation standing, certificates giving her credit at the Honour Matriculation or an equivalent examination in the following five subjects—Latin, Mathematics (Algebra and Geometry), two of English, French or German, Physics, Biology, Chemistry, together with an additional subject, the candidate is recommended to take French or German and a

A student admitted to this course on probation by special petition, who has not fulfilled all the entrance conditions, must do so at the examination of the First Year See Sections 33-35, p 19

Finer VEAD

| English 1a, 1b, p 89 | 2 hour |
|---|--------|
| One of German 1a, p 92 | 4 " |
| French 1a, p 95 | 4 " |
| One of Household Science 1a, p 153 | 1 " |
| Religious Knowledge 1a or 1b or 1c or 1d, p 155 | 1 " |
| *Physics 28, p 132 | 4 " |
| *Zoology 5, 6, p 136 | 31/4" |
| *Botany 5, 6, pp 140, 141 | 31/4" |
| *Chemistry 1, 13, pp 147, 148 | 634" |
| *Household Science 1b, p. 153 | 1 " |

| *Household Science 1b, p 153 | 1 | |
|---|----------------------------|------|
| SECOND YEAR | | |
| One of English 2a, 2b, p. 89 Religious Knowledge 2a or 2b or 2c or 2d or 2e, p. 155 One of German 2a, p. 92 Fench 2a, p. 95 *Zoology 10, p. 136 *Zoology 10, p. 141 *Chemistry 3, 15 part, p. 148 *Chemistry 3, 15 part, p. 148 *Household Scence 2, p. 158 | 2 3 3 2 2 4 | ours |
| | | |

THIRD YEAR

| - | | |
|---|----|-------|
| Philosophy 3a, pp 115, 116 or †3g, p 118 | 3 | hours |
| One of English 3a, 3b, p 89 | 3 | ** |
| History 3a, p 101 | 2 | ** |
| Religious Knowledge 3a or 3b or 3c or 3d or 3e or 3f, p 155 | 3 | ** |
| *Biochemistry 1, 3, p 144 | 7 | ** |
| *Household Science 3b, p 153 | 12 | н |
| *Hygiene and Sanitation | 1 | " |
| FOURTH YEAR | | |
| Polytical Feanamy 4h p. 112 | 8 | hours |

| Political Economy 4h, p 112 | 8 | hours |
|---|----|-------|
| One of English 4a, 4b, p 90 | 3 | ** |
| History 4a, 4b, p 101 | 3 | ** |
| Philosophy 4a, p 116 or †4h, p 119 | 8 | ** |
| Religious Knowledge 4a or 4b or 4c or 4d or 4e or 4f, p 156 | 3 | 11 |
| *Food Chemistry 1, 2, p 145 | 8 | ** |
| *Household Science 4b, 4c, 4d, p 153 | 10 | ** |
| | | |

†St Michael's College *Honours

DEGREE OF BACHELOR OF COMMERCE

COMMERCE AND FINANCE

The Course in Commerce and Finance (formerly included as an Honour Course in Arts) and the course in Commerce have been amalgamated. The new course, called hereafter Commerce and Finance, leads only to the Degree of Bachelor of Commerce.

The intention of the course is to provide a training for business and commercial life in general and at the same time to prepare applicants for the consular service, trade commissionerships abroad, for the foreign expression of Canadian firms, for employment management, employment extract, extractions of the statistical and employment departments of large business houses.

ENTRANCE REQUIREMENTS

Pass Matriculation English, History, Mathematics and three of Greek, Latin, French, German, Italian or Spanish,
Experimental Science (Physics and Chemistry)

or Agriculture (Parts I and II)

Honour Matriculation English, Mathematics (Algebra, Geometry and

Trigonometry) and two of Latin, French, German,

Italian or Spanish, Biology or Physics or Chemistry

A student who submits a Part I Commercial Specialists' Certificate may substitute the same for Ancient History and a language of Pass Matriculation and for the Geometry and Trigonometry of Honour Matriculation

GENERAL REGILATIONS FOR THE COURSE

- 1 A candidate will not receive credit in a subject unless he obtains at least fifty per cent of the examination marks as well as fifty per cent of the aggregate of the term and examination marks in that subject
- 2 A candidate will not be granted exemption from lectures and examination in any subject of the First Year, even though he may have Honour Matriculation or equivalent standing in the subject
- 3 A candidate will be granted Honour standing who, obtaining at least fifty per cent in each of the subjects of a year, also obtains an average of seventy-five per cent of all the marks assigned to the subjects of the year
- 4 A candidate for the Examination of any year will be granted Pass standing provided he passes in all, or all but one of the subjects of the year
- 5 A candidate who has failed in two subjects at the Annual Examination will be debarred from registration and enrolment until he has obtained standing in at least one of these subjects (See foot note on page 201)

6 A candidate in any year, who has failed completely at the May examination, will not be allowed to write at the September examination on any paper or papers set for students in Commerce and Finance, if he wishes to proceed in the course he must repeat the year in which he has failed to secure standing

7 Before the completion of the course of four years a candidate must produce evidence of employment for a definite period in a commercial firm, in public service or in some business capacity

By arrangement with the Department of Education graduates in this course who have obtained a Part I Commercial Specialists' Certificate either prior to entering the University or during the course, will be recognized as having secured the academic standing required from candidates for the Commercial Specialist's Certificate.

FIRST YEAR

| One of English 1a, 1b, p 89 | 2 hours |
|-------------------------------------|---------|
| History la, lb, p 100 | 2 " |
| One of Latin 1a, p. 83 | 4 " |
| German 1f, 1g, p 93 | 3 " |
| French 1d, 1e, 1f, p 96 | 4 " |
| Itahan la or 1c, p 98 | 4 " |
| Spanish la or 1d, p 99 | 4 " |
| *Political Economy 1a, p 107 | 2 " |
| *Mathematics 1j, p 124 | 2 " |
| *Actuarial Science 1a, 1b, p 127 | 2 " |
| Geology and Palaeontology 21, p 151 | 1 " |

Note—The language chosen in the First Year must be continued throughout the four years, unless a student wakes to pursue advanced studies in Actuarial Science in which case he may drop the chosen language after two years and take Actuarial Science in the Third and Fourth Years

SECOND VEAD

| One of English 2a, 2b, p 89 | 2 hours | |
|--|---------|--|
| History 2g, p 103 | 2 " | |
| Philosophy 2a (i), p 115 or †2e, p 118 | 2 " | |
| Mathematics 2c, p 124 | 2 " | |
| One of Latin 2a, p 83 | 3 " | |
| German 2f, p 93 | 3 " | |
| French 2c, 2d, 2e, p 96 | 4 " | |
| Italian 2a or 2b, p 98 | 8 " | |
| Spanish 2a or 2b, p 99 | 8 " | |
| *Political Economy 2a, 2b, 2c, p 108 | 9 " | |
| *Actuarial Science 2b, 2d, 2a or 2c, p 127 | 4 " | |

*A candidate who fails to secure 50 per cent in this subject at the May examination will not be granted standing in his year but must repeat the entire work of the year in a subsequent session

†St Mschael's College

THIRD YEAR

| One of Latin 3a, p 83 | 3 hours |
|--|---------|
| German 3f, p 93 | 3 " |
| French 3b, p 96 | 2 " |
| Italian 3e, p 98 | 3 " |
| Spanish 3e, p 99 | 3 " |
| Actuarial Science 3a, p. 127 | 2 " |
| *Political Economy 3a, 3b, 3c, 3d, pp 109, 110 | 12 " |

| FOURTH YEAR | | | |
|---|---|------|--|
| One of Latin 4a, p 83 | 3 | hour | |
| German 4f, p 94 | 3 | " | |
| French 4b, p 96 | 2 | 44 | |
| Italian 4d, p 98 | 3 | ** | |
| Spanish 4e or 4f, p 100 | 3 | " | |
| Actuarial Science 4a, p. 127 | 2 | ** | |
| *Political Economy 2b, 4g, 4i, pp 108-112 | 6 | " | |
| *Two of Political Economy 4b, p 111, 4c, p 111, 4f, pp 111, 112 | 4 | ** | |
| *Law 4e. pp. 114, 115 | 1 | ** | |

*Law 4e, pp 114, 115

*A candidate who fails to secure 50 per cent in this subject at the May examination will not be granted standing in his year but must repeat the entire work of the year in a subsequent session



SUMMER SESSION

UNIVERSITY OF TORONTO

SUMMER SESSION, 1924

During the Summer Session of 1924 the University of Toronto offers (a) The Course leading to the Degree of Bachelor of Arts (Ti-Teachers' Course)

(b) Courses leading to the Degrees of Bachelor of Pedagogy and Docto of Pedagogy

(c) Summer Course in Dramatic Art

GENERAL INFORMATION

Specion

Enrolment with the instructors will begin at 10 a m., Wednesday, Jul 2nd and may be completed at any time between 10 a m and 12 a m c between 2 p m and 4 p m on that day. Students should first call at th Extension Office for cards of admission. The work of instruction we begin on the morning of Thursday, July 3rd, and continue through Satu day, August 9th, including Saturday forenoons, but exclusive of Civi Holiday.

The Extension Office is now in Simcoe Hall, between Convocation Ha and Knox College

REGISTRATION

Application for registration should be made on the form in this Calenda and should, if possible, be forwarded to the Director of University Extension before June 6th Applications will be accepted up to July 2ar. but subjects not mentioned in this Calendar cannot be arranged for afte Tune 6th

RESIDENCES

The University Residences will be open for the accommodation of students from the beginning of the Session to August 2nd From the date the University is entertaining the British Association for the Advance ment of Science and feels under obligation to offer them the accomodatio of the residences

Those who wish to have accommodation in the residences from July 2n to August 2nd should make application, as usual, to Mr A T Laidla Registrar's Office, University of Toronto A deposit fee of \$5,00 shoul accompany the application

LIBRARY

Students of the Summer Session will be admitted to the privileges of the University Library

EXCURSIONS AND ADDRESSES

Arrangements will be made, if students so deare, to visit a few places of interest under the personal direction of one who is able to give special instruction on the point of interest. Tennis courts will be available for those who wish to use them. Soeal functions are arranged each year with the co-operation of the Students' Committee.

Evening lectures will be arranged during the session on subjects of general interest

THE COURSE LEADING TO THE BA DEGREE

Admission

Applications for admission to the University are to be made on the special forms provided and must be accompanied by all secondary school certificates held by the applicant Certificates should be sent by registered mail, they are returned as soon as their ourpose has been served

FEES

Turtion-One subject, \$10 00, two subjects, \$18 00, three subjects, \$24 00

For admission by certificate to the Second Year

\$15 00 810 00

For admission ad eundem statum

Examinations—\$2 00 each subject

Laboratory—For Practical Work in the laboratory, a deposit fee is required at the beginning of the Scission to cover breakages All, or part, of the fee is returned at the close of the term according to the number and

EVANINATIONS

The Council of the Faculty of Arts will make arrangements whenever possible to allow a candidate who is teaching in Ontario to take his examination in his own locality

SUBJECTS

FIRST YEAR

The work for all students in the Pass Course of the First Year is defined as

1 English

value of the breakages

- 2 Latin
- 3 Mathematics (Algebra and Geometry)
 - 4 General Science
- 5 One of Greek, Hebrew, German, French, Italian or Spanish
- 6 One of Greek and Roman History, Mathematics (Trigonometry), Religious Knowledge

7 One of a second Language from 5, French (advanced), Mathematics (advanced), History and Political Economy, Greek and Roman History and Political Economy

English, Latm, Mathematics (Algebra, Geometry and Trigonometry), Science (Biology, Physics and Chemistry), Creek, German, French, Spanish, are all subjects in the Upper School curriculum. The University has for over thirty years grained exemption from subjects of the First Yaer Pass Course to those who hold First Class or equivalent certificates it has been decided to accept the compulsory History of the First Class certificate as equivalent in value to the Greek and Roman History of the Pass Course of the First Year but not in the combined History and Political Economy options of Group 7. One of the Sciences (Biology, Physics, Chemistry) will be sufficient to relieve a student of the examination in General Science (4)

It is possible, therefore, for a student presenting Upper School or Honour Matrivulation certificates in English, Latin, Algebra and Geometry, Science (Biology or Physics or Chemistry), History or Trigonometry and two of Greek, German, French, Spanish, to eite the Second Year without conditions other than the payment of the regulation fee A student who lacks one of these subjects may enter the Second Year on payment of the beb ut is required to pass subsequently in the subject necessary to complete the First Year, such a subject, ontinued as part of the work of the Second Year, debars a candidate from standing of the Second Year in that subject until the First Year condition is removed and from entiance to the Third Year as well

The Teachers' Course provided by the University begins in the Second Vers and the candidates hitherd admitted have held for the most Faculty Entrance Certificates which allowed the holder of such a certificate on the Language sade admission without conditions and those with certificates on the Second side admission with a Language—usually French standing aspains them.

The older Pass Course of the First Year comprised six subjects, the extract Course requires seven. The conditions at present required for the First Class certificate have also changed. The compulsory subjects are only English and History. The groups and options are greatly changed so that in the future those with First Class certificates intending to proceed with the Teachers' Course cannot be admitted so readily to the Scoond Year.

Three types of First Class certificates may be considered on the understanding that candidates take both Algebra and Geometry

Any other
combination in Mathematics would not be so satisfactory

(a) A candidate who takes two Languages, one of which is Latin The certificate of such a candidate would be accepted for English (Group 1), Algebra and Geometry (Group 3), Hatsory (Group 8), Latin (Group 7), and a Language from Group 5, and, on completing a subject from Group 7, he would be admitted to the Second Year, but would be required to take the Science of Group 4 as part of that Year's work. This First Year Science would be in addition to the compulsory Science of the Second Year, and candidates are strongly advised to remove this First Year Science condition by securing standing in Biology or Physics or Chemistry of the Upper School

(b) A candidate who takes a Language and a Science would be deficient in either Latin or a Language from Group 5 and in one of the subjects of Group 7 One of these conditions must be removed before admission to the Scood Year

(c) A candidate who takes two Sciences is deficient in Groups 2, 5 and 7. Two of the conditions must be removed before entering the Second Year but such a candidate is relieved of the compulsory Science of that year.

It will be seen that the best chore, for the double purpose of securing a Frist Class certificate as will as entrance to the Feschien' Course, is to secure the certificate on English, History, Algebra and Geometry, Latin, French and Science Thair s, taking one subject more than is necessary for the certificate so that such a student would have one condition—a subject from Group T—standing against him

In view of the character of the currentlum in the Second, Third, and Fourth Years candidates will see the necessity of taking French in the Upper School course The complete Mathematics of the Upper School (Algebra, Geometry, and Trigonometry) is an absolute condition for admission to the Mathematics in the Second Year.

SECOND YEAR

English or Mathematics, French, Science, History, Psychology or Political Economy

THIRD YEAR

English, French or Mathematics, Science, History, Ethics or Political

FOURTH YEAR

English, French or Mathematics, Science, History, History of Philosophy or Political Economy

The Scenece of these three years is made up of Rotany, Zoology, and Geology which are offered in any order, one each session, and are of equal value. A student who selects Mathematics, or Political Economy, or the philosophical group of subjects, must take the subject or group chosen throughout the three years, se, the sequence provided by these subjects cannot be broken.

REGULATIONS GOVERNING THE TEACHERS' COURSE

1 These courses are open to persons actually engaged in teaching and to such others as have been approved by the Council In all cases application for admission must be made to the Registrar of the University

through the Director of University Extension Only under exceptional circumstances will a candidate be allowed to attend classes in more than three subjects during one session of the Teachers' Course.

- 2. A student proceeding to the degree shall on on before October 3th of each year submit a statement of the work which he proposes to take (a) in the Teachers' Classes or (b) under supervision preparatory to the Summer Session, and on or before May 15th of each year, a similar statement of the work he desires to take duinar the Summer Session.
- 3 A student will receive credit for each subject in which he secures fifty per cent
- 4 A student will not receive credit for a subject of a higher year until he has passed the examination of the lower year in the same subject He may, however, he a candidate for examination in the work of two successive years in the same subject
- 5 A student who has not been granted complete First Year standing may not enter upon the work of the Third Year, nor a student who has not been granted complete Second Year standing, upon the work of the Fourth Year
- 6 Pursuant to Section 124 of the Revised Statutes of Ontario, 1913, in the case of a candidate for the degree of Bachelor of Arts, registered in the Teachers' Course, enrolment in one of the Arts Colleges shall not be necessary.
- 7 Instruction during the regular session will be given as fat as possible to meet the convenence of the members of the classes residing in Toronto and its immediate vicinity. Instruction during the regular session is also provided, as far as possible, in other centres in the Province where a sufficient number of teachers, or others employed during the day, may be enrolled.
- 8 The Summer Sesson is held during July and a part of August, and is open (a) to persons engaged in teaching, (b) to such aches as have been approved by the Council of the Faculty of Arts, and (c) to regular students who have failed to receive credit in one or at most two subjects of the Pass Course, provided always that instruction in such subjects has been arranged for at that Summer Sesson
- 9 The work of the Second, Third, and Fourth Years of the Teachers' Course may be covered in five years and will involve (a) attendance on Teachers' Classes during four regular sessions or (b) attendance for four Summer Sessions and supervision during four regular sessions
- 10 Instead of completing his course under this plan a candidate proceeding to the degree is advised to attend the regular course of instruction in the Fourth Year, in which case the fourth Summer Semion is not computer to the course of the Department of Education respecting High School Assistants' certificates

- 11 A candidate will not be allowed to present himself for evamination in any subject until he has attended one Summer Session and has had supervision of his work during one academic year, or until he has attended Teachers' Classes in that subject during one regular session or until he has completed the necessary minimum of artendance. See Section 9
- 12 Supervision of work should precede the Summer Session but, as such supervision may follow class instruction, assistance in the work of either group of the Scoond Year or of the Third Year will be provided

SUBJECTS OFFERED IN SUMMER SESSION, 1924

(For details of courses, see pages 9-10)

Second Year English, French, Zoology

Third Year English, History of Philosophy, Political Economy,

Fourth Year English, Science

It is essential that requests for subjects not mentioned in this list should be sent in early so that the necessary arrangements for classes can be made. The time-table will not permit of a student taking, at the same time, other summer courses besides those offered by the University

COURSES OF INSTRUCTION, SUMMER SESSION, 1924

FACULTY OF ARTS

SECOND YEAR

Engi ish

Composition The writing of original compositions
Shakespeare Romeo and Juliet, Henry IV, Parts I and II, Twelfth
Night, Hamlet

FRENCH

Grammar, dictation, translation from English into French, translation at sight from moders French The following texts are presented PIERRE LOTT, Pikhene d'Elfande, ÉDOU'UN PAILERON, Le Monde où l'on c'ennuir, FEANGOS COPTÉS, POUL a Couronne, FEANGOS COPTÉS, POUL a Couronne, FEANGOS LOTTES, POUL COURTE DE CONTROL STATE STATE CE BUSTON OF COURTE STATE COURTE COURTE STATE COURTE C

Zoor ogy

An elementary course on the general structure of the animal body, to organs and tissues and their functions, and the classification and natural history of the common animals of Ontario, with special attention to principles of specialization, addiptation, and distribution. The course is designed to give the student training in the scientific method, and also to afford assistance in the teaching of Nature Stude.

THIRD YEAR ENGLISH

The velections from Milton, Driden, Pope, Goldshiff (omitting The Traveller), Cowers, Burns, Blake, Cradie, Woodsworth (except Personal Talk and the extracts which follow), Colernos, Scort and Broon (omitting Manjred), Swiff, Gallbon's Travels, Books I and II, Addison, Sclett Essays, Johnson, Preface to Shakeptear, Life of Addison, Goldshiff, Wordsworth, Preface to Lyrical Ballack, JANA Gutter, Preface of Ergendere, LAMD, Selett Essays, Cantruct, Sayss of the Times, Newman, Idea of a University (Knowledge its Own End, Knowledge in Adalbon to Learning Commission of the Commission of

POLITICAL ECONOMY

Economic Theory For pass students Books recommended Adam Smith, Wealth of Nations, Malthus, On Population, Ricardo, Political Economy, Gibe and Rits, History of Economic Doctrines, Marx and English, Communital Manifesto, Sparco, Socialism, Levinsky, The Foundars of Political Economic

HISTORY OF PRILOSOPHY

History of the problems of Philosophy with special reference to (a) the Greek period (Thales to Plato) and the Stoics, (b) the origins of modern Philosophy in the Seventeenth Century

Texts Plato, Republic, Locke, Essay on the Human Understanding, Books II and IV Supplementary reading is prescribed in the course of instruction

FOURTH YEAR

ENGLISH

Later inneteenth-century literature selections from Shelley Normal in Propresentative Poetry, selections from An athiology of Modern Verse (Methuen), essays by Shelley and Mill in English Critical Entry of the Nivestonia Century (World's Classics), CARINIA, SATH RESEARCH (Books I and II), Dickers, Great Lapectations, The Actural, Yunity Part, ANNOLD, The Amentom of Criticals, The Literary Influence of Academies

COURSES FOR DEGREES IN PEDAGOGY

The Ontario College of Education offers courses of instruction for the degrees in Pedagogy during the regular College Sessions and during Summer Scissions

DEGREE OF BACHELOR OF PEDAGOGY (B PACD)

The degree of Bachelor of Pedagogy (B Paed) will be awarded under the following conditions

- 1 The candidate shall hold an approved degree in Arts, Science, Agriculture, Engineering, or Commerce
- 2 The candidate shall be in attendance at the Ontario College of Education during two regular College Seasons or three Summer Seasons A High School Assistant's, or First Class, or Second Class certificate valid in Ontario or a regular course in an approved training school for texture will be accepted in lieu of attendance during one of these regular Seasons or one of the Summer Seasons
- 3 The course shall consist of three subjects to be taken in any order and to be selected from the following

Group A -Science of Education, Educational Psychology

Group B -History of Education, Educational Administration

Not more than two of these subjects shall be taken during a regular Session and not more than one during a Summer Session

Candidates who, under Section 2 above, are exempted from attendance during one regular Session or one Summer Session will be exempted also from the instruction and examination in one of the three subjects, provided that the degree be awarded only to candidates who lave taken the instruction and examinations in at least one subject in each of the two groups of subjects.

- 4 The examinations shall be held in May at the University of Teconic or in any other locality in the Province chosen by the candidate and approved by the Senate and under a presiding examiner appointed by the Senate, provided the candidate thereat difray the cost of the local examinations. The candidate shall send notice not later than the 15th day of March of his intention to take the examinations and of the locality he has chosen for such examination.
- 5 The fee for registration is \$5. The fee for the Summer Session is \$1.0, the fee for the regular Session, which shall include the examination and library fees, is \$25. The fee for examination is \$3 for each subject. The fee for the degree is \$20. All fees shall be paid to the Bursar with the application for registration or examination, as the case may be
- 6 The standard for a Pass degree shall be 60 per cent of the marks assigned to each subject. The candidate who obtains 60 per cent of the marks of each subject, and 66 per cent of the aggregate of marks, shall be awarded a degree with Second Class Honours. The candidate who obtains 60 per cent of the marks of each subject and 75 per cent of the aggregate of marks shall be awarded a degree with First Class Honours. On the report of the instruction concerned, a maximum of 40 per cent of the marks in any subject may be assigned to the term work of the candidate.

- 7 Subjects of Instruction and Examination
- (a) The Science of Education, including a study of the philosophical, ethical, and sociological bases of education (Two papers)
 - (b) Educational Psychology (Two papers)
- (c) The History of Education in Western Europe and North America in modern times, with special reference to Ontairo, Great Britain, and the United States (Two papers)
- (d) Educational Administration in Great Britain, the United States France, and Germany, with special reference to the administration and organization of education in Ontario (Two papers)

DEGREE OF DOCTOR OF PEDAGOGY (D PAED)

The degree of Doctor of Pedagogy (D Paed) will be awarded by the School of Graduate Studies under the following conditions

- 1 The candidate shall hold an approved degree in Arts or Science or in the applied sciences of Agriculture, Engineering, or Commerce
- 2 The candidate shall be in attendance at the Ontano College of Education diring there regular College Sessions or four Summer Sessions A High School Assistant's, First Class, or Second Class certificate valid in Ontano, or a regular Course in an approved training school for teachers will be accepted in lieu of the attendance during one of these regular Sessions or one of the Summer Sessions or one of the Summer Sessions.
- 3 The Course shall consist of the four subjects and a thesis as defined in Sections 5 and 7 The subjects may be taken in any order, provided that not more than two be taken in any regular Session and not more than one in any Summer Session. Candidates who, under Section 2, are exempted from attendance during one regular Session or no Summer Session will be exempted also from the instruction and examination in one of the four subsects.
- 4 The examinations shall be held at such times and under such conditions as to date of application, place of examination, percentages, etc, as obtain with the Bachelor's degree
- 5 The candidate, after passing the prescribed examinations, shall also submit on or before March lat a thesis on some dicutational topic selected with the approval of the Ontano College of Education In valuing this thesis literary excellence, as well as the discussion of the subject, will be taken into account After the examiners have reported in favour of the candidate's examinations and thesis, and before the degree of D Paed is conferred, the candidate shall furnish the Secretary of the School of Graduate Studies with twenty-five copies of the thesis

- 6 The fee for regastration, if not already registered in the B Pacd Courses, n. \$5 The fee for the Summer Session in \$10, that for the regular Session, which shall include the examination and library fees, \$25 The fee for examination is \$3 for each subject. The fee for the degree is \$25 All fees shall be paid to the Bussar with the application.
 - 7 Subjects of Instruction and Evamination
- (a) The Science of Education, including a study of the philosophical, ethical, and sociological bases of education (Two papers)
 - (b) Educational Psychology (Two papers)
- (c) The History of Education in Western Europe and North America in modern times, with special reference to Ontario, Great Britain, and the United States (Two papers)
- (d) Educational Administration in Great Britain, the United States, France, and Germany, with special reference to the administration and organization of education in Ontario (Two papers)

EDUCATION FELLOWSHIPS

Four fellowships of not less than \$500 each are offered annually to teachers who undertake to pursue graduate work in Education leading to the degree of D Paed or Ph D On the recommendation of the instruction concerned these fellowships may be renewed for a second year. Applications for these fellowships should be addressed to the Dean of the Ontario College of Education not later than June lat of each year.





UNIVERSITY COLLEGE

UNIVERSITY COLLEGE

University College is, since the Federation Act of 1887, the complement, in the system of higher education provided by the State, of the University of Toronto. The State furnishes through University College instruction in those departments of the Arts course in which it does not furnish instruction through the University. The departments are Greek, Latin, Ancient History, English, French, German, Oriental Languages, and Ethics.

Principal

Maurice Hutton, M A , LL D

Registrar

G OSWALD SMITH, M A

Dean of Women and Head of the Women's Union $\,$ Mrs M $\,$ M Kirkwood, $\,$ Ph D

UNIVERSITY COLLEGE COUNCIL THE PRINCIPAL

Professors Alexander, Cameron, Macnaughton, Milner, Needler, Taylor, Tracy, Wallace, Will

Associate Professors Cochrane, Dale, Davis, De Champ, Fairley, Hamilton, Jeanneret, Knox, Moraud, Owen, Smith

ASSISTANT PROFESSORS ALLEN, CLAWSON, DUFF, HEDMAN, MCKELLAR

ENPOLMENT OF STIMPINTS

The conditions precedent to enrolment in University College are determined by the Council of the College Every student of the College must either be an undergraduate of the University, or, if he be an occasional student, must starsby the College Council that he has a sufficient know-ledge of the subject in which he proposes to attend College lectures to do so with Solvantase.

DISCIPLING

The College has full control of its students so far as concerns their attendance upon lectures in the courses provided by the College, and their admission to the University examinations. No student of the College will be received by the University for examination without a certificate from the College that he has compiled with its regulations.

RELIGIOUS KNOW POOR

No student will be allowed to take a Religious Knowledge option in any other than University College without the consent of the College Council Each student who washes to take a course in Religious Knowledge outside University College must make formal application to the Principal on or before October 25th, stating what course he deserts to take. for what subject the course is an option, in which College the applicant proposes to take this course and for what reason he wishes to take it outside University College

LODGING AND BOARD

Lodging and board are obtainable in private boarding houses within convenient distance of the University, or cooms may be rented and board obtained separately A list of accredited boarding-houses is kept by the Secretary of the University Student Christian Association in Hart House, and by the Head of the University College Women's Union Students are recommended to consult them with reference to the election of suitable accommodation. Board may also be obtained at moderate rates at Hart Flouse, and for Women at the Women's Union.

For University and College Residences see pages 154 and 156

STUDENT SOCIETIES, ETC.

Various societies and associations have been organized in the College for the promotion of Christian effort, social intercourse, literary and scientific activity, and athletics

The College has a branch of the University Student Christian Association, which has its quarters in Hart House

The women students also have a College branch of the Student Christian Association

The University College Literary and dethletic Society is the authorized administrative body of the men students of the College, for which a compulsory fee of \$2.00 a year is collected from each member. This Society officially prepresents the men students in dealing with the University and College governing bodies. It directs the social and athletic activities of the men students. It also holds debates and ultrary programmes

The Women Undergraduates' Association holds a similar position in relation to the women students, a compulsory fee of \$1.00 a year being collected from each member

A joint Council representing these two bodies deals with matters of common interest to all the students

The men of each Year have their own elected executive The Presidents of the four Years are ex offices Councillors on the executive of the Literary and Athletic Society.

The women students have similar Year executives

There is also a Women's Literary Society of the College

The Players' Guild is an organization devoted to the study of the drama and is open to all students of the College

Besides the above there are several associations connected with the College departments, such as the Classical Association, the Modern Language Club, etc. There are similar societies connected with the University departments, to which members of the College are eligible

LUNIVERSITY OF TORONTO

REGULATIONS RELATING TO STUDENTS, TERMS AND EXAMINATIONS

- 1 Students entering University College are required to produce satisfactory certificates of moral character and previous good conduct.

 No student will be enrolled in any year, or be allowed to continue
- in attendance, whose presence for any cause is deemed by the Council to be prejudicial to the interests of the College

 3 Students are required to attend the courses of instruction and ex-
- 3 Students are required to attend the courses of instruction and examinations in all subjects prescribed for students of their respective standing, and no student will be permitted to remain in the College who persistently neglects academic work
- 4 The certificate required for admission to the University examinations will not be granted to students who have been reported to the Council for not conforming to the College regulations, or for improper conduct of any kind
- 5 Students are required to reside, during the period of their attendance on lectures, in houses selected by their parents or guardians or approved by the College Council
- 6 Men and women students, unless members of the same family, are not permitted to reside in the same lodging-houses
- 7 All women undergraduates in University College are required to register with the Head of the Union at the beginning of term. Her directions as to conduct are to be observed. Women undergraduates who are away from home and not in a College Residence must have their boarding-houses approved by her.
- 8 All interference on the part of any student with the personal liberty of another, by arresting him, or summoning him to appear before any unauthorized tribunal of students, or otherwise subjecting him to any indignity or personal violence, is forbidden by the Council Any student convicted of participation in such proceedings will forfest the certificate required for admission to the University examinations, and will render himself liable to evaluison from the College.
- 9 A student who is under suspension, or who has been expelled from the College or University, will not be admitted to the University buildings or grounds
- 10 The constitution of every College society or association of students and all amendments to any such constitution, must be abomitted for approval to the College Council All programmes of such societies or associations must, before publication, receive the sanction of the Council Permission to invite any person not a member of the Faculty of University College to preade at or address a meeting of any society or associations are subject to the consent of the Council Societies and associations are required to confine themselves to the objects laid down in their constitution
- 11 The name of the College is not to be used in connection with a publication of any kind without the permission of the College Council
 - 12 Certificates of attendance on lectures in any department during an

academic year may be given to occasional students who have been regular in their attendance, and who have also passed the examinations in such department

13 (a) Each Society composed wholly or in part of students registered in University College shall supply the Principal with a copy of its constitution, and the names and addresses of its officers

(b) The Council of University College will sanction dancing only in buildings the use of which it has authorized

(c) In every instance where dancing forms any part of the programme a complete list of the participants who are not University students, with

a complete list of the participants who are not University students, with their addresses, shall be supplied by the President of the Society (d) For each evening meeting attended by both men and women students

chaperones must be appointed, the names and addresses of whom shall be submitted one week in advance to Mrs Kirkwood, 79 St George Street (e) Dancing shall cease by 11 o'clock p.m., unless special permission

(f) When dancing forms part of a regular meeting of a Society, it shall

(g) Applications for permission to hold social gatherings are to be addressed in writing to the Convener of Committee on Social Activities

AWARDED BY THE COUNCIL OF UNIVERSITY COLLEGE, JUNE, 1923

PRIZES

The Squair French Prose Prize Miss H E Hitherington
The Toronto Alumnae Prize in English Composition of the
Second Veer

The Tracy Prize, for Ethics, Fourth Year

at the Post Office, University College

McCaul Gold Medal in Classics

No award

MED ALS

The Governor-General's Silver Medal for Modern Languages

Miss C P Cohen L A MacKay

No award

SCHOLARSHIPS

The McCaul, for Classics (Junor Matriculation) Miss H I McClaggers
The Mass, for Classics (First Verer) R R H H Page
The Edward Blake, for Moderns (I'rst Verer)
The George Brown, for Moderns (Second Verar)
The Win Mittlek, for Classics (Second Verar)
The Wass, for Classics (Chord Verar)

No award

No awar

The Julius Rossin, for Moderns (Third Year)

[Miss K M Hallord P Matchlo

The John Macdonald, for Philosophy (Third Year)





VICTORIA COLLEGE

VICTORIA COLLEGE

Victoria College was founded by resolution of the Conference of the Methodist Church in Canada, held in Kingston in August, 1830. The institution was opened for students at Cobourg on the 18th of June, 1836, with the Rev Matthew Richey, M A, as Principal. On the 12th of October, 1836, etters patent were issued by His Magiesty King William IV, incorporating the institution as a seniorary of learning for the Province of Upper Canada, under the name of "Upper Canada Academy".

In 1841 the Parlament of the Unsted Provinces of Upper and Lower Canada, being now first constituted by Acts of the Imperal Parlament with power to grant such a charter, at its first session held in the cityle of Kingston, passed an Act evending the charter of the Academy under the name and style of "Victoria College, with power and authority to confer degrees of Bachelor, Matter and Doctor of the various Arts and Faculties", which Act was assented to by the Governor-General on the 27th of Aurent. 1841

On the 21st of October, 1841, the Rev Egerton Ryerson, having been appointed principal, opened the first college session under the enlarged charter

In the year 1844 the Rev A McNabb, D D, succeeded the Rev Dr Ryerson as Principal, and occupied the office until 1849 At the close of his term the number of students in the College was 140

In 1850 the Rev S S Nelles, M A, was appointed Principal, and addressed himself to the task of organizing and enlarging the College to the status and work of a University In the year 1834-55 the Faculty of Medicine was added and established in Toronto In 1860 the Faculty of Law was added, and in 1871 the Faculty of Theology

In the year 1883-81 a Commassion, appointed by the General Conference of the Methodist Church, arranged for the consolidation of Albert College, Belleville, with Victoria College, Cobourg, and legal effect was given to this consolidation by Act of the Legislature of Ontario, 47 Vict, chan 98

The corporate name was by thin Act changed to "Victora University". The government of the University was vested in a Board of Regionts, Chancellor, Vice-Chancellor and Senate To these bodies was given power to affiliate outlying colleges, and full university powers in all faculties were continued. The Rev S S Meles, D D, LL D, as President was earlied first Chancellor, and William Kerr, M A, LL D, K C, Senator, was elected first Vice-Chancellor.

Under the provisions of the present charter the following colleges are affiliated in Arts with Victoria University —Albert College, Belleville, the Ontario Ladies' College, Whitby, Alma College, St Thomas

In 1887, the Rev S S Nelles, D D, LL D, died, and the Rev N Burwash, S T D, LL D, was appointed President and Chancellor

On the 12th of November, 1890, under the provisions of the Revised Statutes of Ontario, chap 230, and the Acts amending the same, Victoria University was, by proclamation of the Lieutenant-Governor, federated with the University of Toronto

On the first of October, 1892, the Faculty of Victora College began work in the present Man Building in Queen's Park, Tocrotto, and the federation of the Universities was practically consummated. The Faculty of Arts then assumed the work and relation of a College in the University of Torotto, providing instruction in all subjects assigned by the Federation Act to University College. In other subjects the students of Victoria College attend the lectures and laboratory practice of the University of Torotto, and receive their degrees under the statutory regulations of its Seaste.

By the provisions of the Federation Act of 1887 the President of Victions College, a representative of the Sante of Victions College, and five representatives of the Sante of Victions College, and five representatives of the Sante of the University of Toronto, and the graduates and undergraduates of Victoria College are gnarted the same standing and privileges in the University of Toronto. By the provisions of the University Act of 1905, three members of the Arts Faculty of Victoria, chosen by that body, are sent as additional representatives to the Senate of the University of Toronto, and all the premanent members of the Arts Satis of Victorias as well as one member of the theological staff chosen by that Ordinary are members of the Council of the Faculty of Arts of the University of Toronto.

At Federation five hundred and seventy-seven graduates of Victoria College were admitted to standing and privileges of the degree of BA in the University of Toronto, two hundred and thirty-one to those of MA, nine hundred and sixty-three to those of MD, one hundred and twenty-five to those of LLB, and forty to those of LB.

By the University Act of 1901 the electoral body in Convocation of Victoria College was made permanent, and was enlarged to include all graduates in Arts of the University of Toronto since 1892 who at graduation were enrolled in Victoria College

The electoral body of Victoria College in the Convocation of the University of Toronto now consists of about 2340 graduates in Arts, besides the graduates in Law and Medicine, who form one body with those of the University of Toronto

In 1913, the Rev N Burwash, STD, LLD, retired from the position of President and Chancellor and the Rev R P Bowles, MA, DD, LLD, was appointed in his stead

LL D, was appointed in his stead

The following Benefactions have been given to Victoria University for
the endowment of chairs and erection of buildings —

Mr and Mrs Edward Jackson for endowment of chair, \$30,000

Wm Gooderham, Esq , for building and endowment, \$200,000

The Honourable Geo A Cox and Mrs Cox, for endowment of two chairs, \$100,000

Hart A Massey, Esq , for building and endowments, \$960,000

The Honourable John Macdonald, for building for federation purposes, \$25,000

WEH Massey, Esq, for endowment, three hundred shares of Massey-Harns Stock

Sir Joseph Flavelle, Bart, LL D, for endowment, \$30,000 Andrew Carnegie, Esq., for library building, \$50,000

Cyrus A Birge, Esq., for library endowment, \$50,000

From these and other sources the following Chairs have been endowed -

The Edward Tackson Chair in Biblical and Systematic Theology

The Rverson Chair in Ethics and Evidences of Christianity

The Nelles Chair in Ancient History

The Nelles Chair in Ancient History

The William Gooderham Chair in English Literature

The H A Massey Chair in the English Bible

The Eliza Phelps Massey Chair in Old Testament Exercis

The Geo A Cox Chair in New Testament Exercis

The Margaret Cox Chair in Homiletics and Pastoral Theology

The W E H Massey Chair in Greek Language and Philosophy

The J W Flavelle Chair in Hebrew

A special endowment for the Presidency of the College

The John Macdonald Chair in Latin

The buildings, library, furniture and grounds of Victoria College are now valued at 31,184,264 39, and the endowment and prize fund totals \$1,282,662 87

GOVERNMENT OF VICTORIA COLLEGE

BOARD OF REGENTS

Representatives of the General Conference

REV S D CHOWN, D D, LL D

REV J W GRAHAM, BA, DD, LLD

REV W L HILES, BA

REV A J IRWIN, BA, BD, DD

REV W J SMITH, BA

REV TREVOR H DAVIES, D D

REV R N BURNS, BA, DD REV W G CLARKE, BA

A E AMES, Eso

C D MASSEY, Eso, LL D

H H FUDGER, ESQ HON N W ROWELL, LL D, K C

Representatives of the Alumns

HON I I MACLAREN, M A . LL D . D C L . Vue-Chancellor

Mrs G J Blewett, B A

G H LOCKE, M A

REV C W BISHOP, B A

F N G STARR, CBE, MD, CM, FACS PROFESSOR C T CURRELLY, MA

Mrs R G Dingman, B A

J R L STARR, BA, LLB, KC

Co-opted by General Conference and Alumni Representatives

REV R P BOWLES, M A , D D , LL D , Chancellor

W E RUNDLE, Esq

E R Wood, Esq.

G H WOOD, ESQ F H DEACON, ESO

A R FORD, B A

LADY FLAVELLE

H C Cox, Eso

THE SERVER

REV R P ROWLES M A . D D . LL D . Chancellor HON MR ITISTICE MACLAREN, M A. LL D. Vice-Chancellor REV S D CHOWN, D D, General Superintendent of the Methodist Church A P COLEMAN, M A, PH D (Bresl) LL D, FRS, Honorary Professor PROPESSORS OF THE FACULTY OF ARTS PROFESSORS OF THE FACILITY OF THEOLOGY MEMBERS OF THE ROADD OF REGENTS

Representative of Albert College F W MERCHANT, BA, D PAED

Representative of the Ontario Ladies' College RRV. F S FARRWRLL, BA

Representative of Alma College REV P S DOBSON, M A

Representatives of the Alumna REV W B CREIGHTON, BA, DD

H W GUNDY, B A REV I H ARNUP, B A H W AIKINS, BA, MD MRS G H DUFF, B A MISS E F ADAMS, BA F H CLARKE, BA F C COLBRCK, B A

ADMINISTRATIVE OFFICIALS

President REV R P BOWLES, MA. DD. LLD Dean of the Faculty of Arts I C ROBERTSON, M A Dean of the Faculty of Theology REV I F McLAUGHLIN, B A Registrar C E AUGER, B A Labraman A E LANG, MA Rursor REV F LOUIS BARBER, M A , PH D Accountant W J LITTLE, B A Secretary of the Faculty N W DEWITT, BA. PHD Secretary of the Faculty of Theology REV W A POTTER, M A , B D Dean of Residence C V MASSEY, M A Sensor Tutor in Residence G M SMITH, MA Dean of Women Students Miss M E T Addison, BA. Treasurer W E RUNDLE, Esq.

GENERAL REGULATIONS AND ANNOUNCEMENTS FOR STUDENTS IN ARTS

Admission

Students are admitted to registration in the Faculty of Arts on having assess the Matriculation examination prescribed by the University of Toronto, or on giving the Faculty satisfactory evidence of their ability to pursue the course of study proposed. They are required to observe the general regulations of the University of Toronto and of Victoria College in regard to afterdance on factures and examination in researd to attendance on factures and examination.

EXAMINATIONS.

No student may present himself for any University examination subsequent to matriculation without having complied with all the requirements of his college affecting his admission to such examination

OCCASIONAL STUDENTS

Occasional students may be admitted to lectures on application

Certificates of attendance on lectures in any department during an academic year may be given to occasional students who have been regular in their attendance and who have passed the evaminations in such depart-

TERMS

The term will not be allowed to students who have been reported to the President by any Professor as neglecting to attend the required lectures, or who have not conformed to the statutes and regulations of the College

INSTRUCTION

Instruction in the various subjects of the Arts course is given by the Arts Faculty of the University of Toronto and the Arts Faculty of Victoria College Instruction in the Religious Knowledge options is given by the Theological Faculty of Victoria College

COLLEGE EXAMINATIONS

Students are required to attend all examinations prescribed by the Professors and Lecturers in their departments

Prizes and honours are awarded on the recommendation of the Professors and Lecturers, in accordance with the requirements prescribed by them in their several departments

FRES

The fees required to be paid by students enrolled in Victoria College are those prescribed by the Governors of the University of Toronto Enrolment fees are paid to the Fees Clerk of the College, all other fees are paid to the Bursar of the University of Toronto

DISCIPLINE

All students enrolled in Victoria College are subject to the regulations as to discipline prescribed by the Council of the Faculty of Arts of the University of Toronto

Students are required to attend the lectures, as well as the examinations on all subjects necessary for students of their course and standing. Compliance with this rule will be required as a condition of admission to examination by the University unless discensiation has been obtained.

All interference with the personal liberty of the student, by arresting him, or summoning him to appear before any unauthorized tribunal of students, or otherwise subjecting him to any indignity or personal violence is forbidden by the Faculty. Any student convected of participation in such proceedings will forfer the certificate required for admission to the University examinations, and will render himself liable to expulsion from the College.

RELIGIOUS SERVICES

Morning prayers are held daily except Saturday and Sunday in the Chapel, at which all students are expected to be present. Other religious services will be held at suitable times, to which all students are cordially invited.

LIBRARIES, MUSEUMS, ETC.

The students of Vactora College, beades having the use of the University of Toronto Library and the various Laborators of the University, have fee access to the Victora University Library, which consist of working collection of 30,000 boand volumes on the English, Latan, Grade Freich and German languages and literatures, History, Philosophy and the various decariments of Theology.

The College has loaned to the Royal Ontario Museum its nuneralogical palacontological and biological collections, as well as its collection of Egyptian and Indian relics

STUDENTS NOT IN RESIDENCE

All students who do not reade in any one of the Rendences or who do not reade with their parents or with such persons as their parents or guardians direct, are recommended to board and lodge in such houses as are approved by the Perseduent of the order of the obstance, is prepared as a proposed by the Perseduent of the obstance, is prepared as the proposed by the Student Christian Association Students will be each year by the Student Christian Association Students will be exceeded to observe proper bours and to maintain the conduct of Christian Association and the conduct of Christian Association students and the conduct of Christian Association students will be supposed to the conduct of Christian Association students and the conduct of Christian and Christ

THE RESIDENCE FOR MEN STIMENTS

The Residence buildings comprise one hundred and sixteen bed-sitting rooms, and in each house there is a Common-Room with a fire-place on the ground floor, as well as a bedroom and sitting-room for the Tutor in Residence. About fifteen bedrooms have fire-places, and in one house there are two suites, each consisting of a bedroom and a study.

The Hall, known as Burwash Hall, is capable of seating 200 persons at meals Used as a hall for lectures, it will seat about 700

All inquiries should be addressed to the Dean of Residence, Victoria College, Toi onto, from whom can be obtained further information

THE RESIDENCES FOR WOMEN STUDENTS

The Residences for Women Students, Annesley Hall and other houses, furnish residence for one hundred and eleven women students of Victoria College

Applications for rooms must be accompanied by a deposit fee of \$10, which will be refunded if the application is withdrawn before September first. Fees are payable half on the first of October and half on the first of February.

Further information may be obtained by writing to the Dean of Women Students, Annesley Hall, Queen's Park, Toronto

MEDALS, SCHOLARSHIPS, AND PRIZES, 1923

FACILITY OF ARTS

Awarded by the Senate of The University of Toronto (those marked with an asterisk) and by the Senate of Victoria College

FOURTH YEAR

*The Governor-General's Gold Medal F G Ward *Proxime accessi Miss R V H Kendrick *The James London Gold Medal (Mathematics

and Physics) Miss R Carnahan *The Ouebec Bonne Entente Prize H W Hilborn

*The 1851 Exhibition Science Research Scholarship W L Webster "The George Payton Young Memorial Fellowship

in Philosophy S I Mathers The Governor-General's Silver Medal W H, Trethewey The Edward Wilson Gold Medal in Classics Miss R V Kendrick

The J J Maclaren Gold Medal in Moderns H W Hilborn The S H Janes Silver Medal in Moderns Miss M G Bailey

The S H Janes Silver Medal in Philosophy,

English and History C C Oke

The Reginald Heber Manning Jolliffe Gold Medal ın English Miss L M Coburn The E J Sanford Gold Medal in Philosophy S I Mathers

The S H Janes Silver Medal in Philosophy H J S Howey The George A Cox Gold Medal in Science G R Balfour

The Gold Medal in Orientals F G Ward The Gold Medal in Mathematics and Physics Miss R Carnahan

Thu S H Janes Silver Medal in Mathematics and Physics W L Webster The Gold Medal in Household Economics Miss M E Craig

The S H Janes Silver Medal in Household Economics Miss K G Crosby

The S H Janes Silver Medal in Household Science Miss M A Caldwell

The W J Robertson Prize in Canadian Constitutional History R G Start

THIRD YEAR

*The AAS Scholarship in Mathematics and Physics (Third Year) E H Graham

*The Ramsav Scholarship in Physics (1922-23) (Third Year)

Miss R Carnahan The George Dennis Morse Scholarship Miss G H McKav The Reginald Heber Manning Jolliffe Scholarship

in English

N J Endicott

The George John Blewett Scholarship in Philo-

sonhy H Moores A Hamilton Fisk Biggar Scholarship in Classics Miss I E. Irwin

A Hamilton Fisk Biggar Scholarship in the Pass

Соцгье The Hodgins Prize in Pass English R F Trewn Miss K F Filliott

SCHOLARSHIPS

SECOND YEAR

*The Edward Blake Scholarship in Biological and

Medical Sciences (Second Vear) W I B Dickson *The John Macdonald Scholarship in Philosophy C. G. Park

A Hamilton Fisk Biggar Scholarship in Household

Economics Miss E A Jerome The Essa Van Dusen Dafoe Scholarship in French Miss A. G. Nelson

The Webster Prize in Pass English (Second Year) Miss C. I. Davidson The Regents' Prize in English Essays (Second [1 Miss R I Jenking

Veor 2 D I Creighton The Robert Johnston Prize in Pass Hebrew (Second Year)

I M Deck

FIRST YEAR

A Hamilton Fisk Biggar Scholarship in English and

Mice M F H Adome History A Hamilton Fisk Biggar Scholarship in Philosophy,

English and History I A Irving A Hamilton Fisk Biggar Scholarship in Household

Economics Miss S M Hughson The A. P. Misener Scholarship in Oriental Langu- [1] N. H. Hall

ages (Eligible according to examination in the 2 R M Dingwall 3 A E Larke order named)

*The First Alexander T Fulton Scholarship in Natural and Physical Sciences (First Year) Miss D F Forward E S Livermore The W E H Massey Scholarship (Classics)

ALL THE YEARS

The Lincoln Hutton Scholarship in English

Essava Miss D E Tove The Lily Denton Keys Prize in English Essays Miss K M Davies

Awarded by the Alumni Association of the University of Toronto I G Endicott The Moss Scholarship

IUNIOR MATRICULATION, 1922

W P Horwood The Flavelle Scholarship (Classics))

AFFILIATED COLLEGES

ALBERT COLLEGE RELLEVILLE, ONT

FOUNDED 1854

FACILITY

THE REV E N BAKER, MA, DD, Principal ELLA GARDINER, B A . Lady Principal T C McMullen, M A . PH D . Dean of Residence. REV S F MAINE, MA. BD F R BAMFORTH, M A W. C SMITH, B A MINNIR PARKS A H N SNELGROVE VICTORIA BURLEIGH V P HUNT, AAGO S M ANGLIN, BA

BESSIE HANDLEY, A T C M KATHRYN SISSON, A T C M TESSIE TUITE Barbara Crawford MRS JEAN BAKER

COURSES OF STUDY

- I Collegiate Course, embodying elective undergraduate studies
- II Junior and Senior Matriculation in Arts, Engineering, Law, Medicine and Theology
- III Teachers' Course, to prepare for teachers' examinations IV Preliminary Course, as prescribed by the General Conference of the
- Methodist Church V Depts of Religious Education
- VI Business College Course, comprising Theoretical and Practical Bookkeeping, Practical English, Shorthand and Typewriting
- VII Musical Course in Musical Academy, comprising Pianoforte Course, Organ Course, Post Graduate Course and Voice Culture
- VIII Courses in Elocution, Physical Culture and Deportment
- IX Course in Fine Arts, embracing Painting, Drawing, etc.
 - X Alexandra Ladies' College Course, leading to the M L A and M M L

ALMA COLLEGE

ST THOMAS, ONT OPENED, 1881

ADMINISTRATIVE OFFICERS

SAMUEL DWIGHT CHOWN, MA, DD, LLD WF THOMAS PS DOSON, MA (OXON) ROBERT I WARNER, MA, DD OLIVE ZIEGLER, BA MES PA ALLISON President of Board
Chairman of Executive
Principal
Principal Emeritis
Dean of Residence
Nurse

LITERARY DEPARTMENT

OLIVE ZIEGLER, B A
P S DOBSON, M A
KATHLEEN BOWLBY, B A
MARGARET THOMSON
MRS P S DOBSON, B A
AONES MCKERCHER. M A

Religious Education, English Latin Mathematics, Science Preparatory Studies French, German History, English

Music

THOMAS MARTIN, Director STANLEY OLIVER HARRIETT B JOLLIFFE, A A C M CLETA FORD GURLI HAUSCH MARGARET MACFIE NANCY POOLE Psanoforte, Concert Solos Organ, Harmony, Choral, Vocal Psanoforte Psanoforte Vsolsn Psanoforte

Violin

FINE ARTS

EVA ST THOMAS SMITH S M MCKAY OLIVIA TILTON Passiting, Modelling and Sketching China Passiting Arterasi

COMMERCIAL SCIENCE

Cassie McLennan Bookkeeping, Phonography, Typewriting and

ELOCUTION AND PHYSICAL EDUCATION

MAY BELLE ADAMS Reading, Expression IVEAGE MINROE Physical Education

*HOUSEHOLD SCIENCE

ANNE FLEMING

Cookery, Dietetics, Sewing

DIPLOMA COURSES

- (a) M E L, embracing University Junior and Senior Matriculation with options and additional subjects in Bible Study, English, etc. (b) Music (Piano, Organ, Voice or Violin).

 - (c) Fine Art
 - (d) Elecution and Physical Education
 - (8) Commercial and Shorthand
 - (f) Household Science



TRINITY COLLEGE

TRINITY COLLEGE

I TRINITY COLLEGE, WITH RESIDENCE FOR MEN

J A WORRELL, K C, M A, D C L, Chancellor
THE REV C A SEAGER, M A, D D, LL D, Vice-Chancellor and Provos.
L C A HODGINS, M A, Dean of Residence
I N WOODCOCK. M A. Resistrar

W A KIRKWOOD, MA, PHD, Dean of the Faculty of Arts

REV S A B MERGER, MA, PR D, DD, Dean of the Faculty of Dwinty R E L Kittreege, MA, Libraran

REV S CHILDS, BA, BD, Extension Secretary and Clerk of Convocation Sydney H Jones, Esq, Bursar and Secretary of Corporation

II ST HILDA'S COLLEGE-RESIDENCE FOR WOMEN

Miss M Cartwright, B A, Principal and Dean of Women Students Miss Strackan, Assistant Miss Cotterill, Assistant Sydney H Iones, Eso. Bursar

Trusty College, which entered into federation with the University of Toronto on the first day of Coloder, 1904, was founded by the Honoided by the and Right Reverend John Strachan, D. D., LL. D., fixer Bashop of Toronto one of the founders, and at one time President, of King's College in 1850, for the established, after the secularisation of King's College in 1850, for the purpose of combining religious instruction with a liberal education.

In 1851 Trunty College was incorporated by the Legislature of Canada In 1852 a Royal Charter conferred upon it University powers, which were everesed in all Faculties down to 1904, under the style of the University of Trunty College Since 1904 Trunty College has conferred degrees only in the Faculty of Drunty.

For a certain period state aid was granted to it in common with the other Universities of the Province, but this was albeaquently withdrawn in 1874 the question of federation was mooted, but no serious attempt at a subinton was made till about the year 1885, and it was not till nearly twenty ears later that satisfactory terms of federation were finally concluded

Under the Federation Agreement, the degrees in Arts are conferred by the university of Toronto, the instruction being given by Traity College in all College subjects, and by the University in the remaining subjects of the Arts curriculum, and Traity College students having access without extra fees to the University classes and laboratories In the Faculty of Divinity, Traity College continues to excrese the functions of an inde-

pendent University, having no relation to the University of Toronto in respect of degrees in this Faculty

St Hida's College was founded in 1888 by the Rev Dr Body, the second Provote of Trinity College, to provide a residence for the women students of Trinity College, together with instruction in certain subjects of the Arts course Later such instruction way discontinued in favour of complete co-education, St Hida's continuing to be the residence for women students of Trinity College

Religious instruction for all its students in Arts having been one of the chief reasons for the foundation of Truity College, this still remains one of its distinguishing features, the federation agreement with the University of Toronto preserving this right in perpetuity to all students of Trinity College

Residence is another advantage offered by the College, accommodation being provided for about 100 men students. Here they come into close contact daily with one another and with the members of the staff, both resident and non-resident. In this way one very important element in education is noveled.

The women students attend lectures with the men, and readen in St Hilda's College, which is convenently situated in the Timuty College grounds, and offers to women all the airvantages which are offered to men by the residence of Timity College. All the women students, resident and non-resident, come under the supervision of the Dean of Women Students, Miss M Cartwright, B A, who is also Principal of St. Hilda's College St. Hilda's Lodge, which adjoins the main building, is under the immediate charge of Miss Stracha. These two buildings provide residence accommodation for about fifty students.

On week days both men and women attend the morning and evening services of the Chapels of their respective colleges. On Sundays they attend the Trinity College Chapel together, this latter regulation applying to residents and non-residents alike.

Though the College belongs to the Church of England, it is open without religious tests to members of other communions. They are allowed to absent themselves from the Chapel services on Sundays on stating to the Provest their intention to attend a church of their own denomination, on the understanding that they will present a certificate of attendance, on as to statefy the College resultances in this resonance.

Members of other communions are not required to take the courses of study prescribed in the Church Catechism and the Prayer Book, but are allowed to substitute for them courses in Church History, the Evidences of Christianty, Christian Ethics, or New Testament Greek

All students are required to keep term in lectures and chapels, and upon enrolling are placed under promise to obey the rules and regulations of the College Tuition (or registration) fees for regular and special students are the same as are paid in the other Colleges and are payable to the Bursar of Trinity College

Particulars as to fees for board and room, etc., may be obtained by applying to the Provost or the Registrar

HARRE

Every student of Trinity College is required to sign the following declaration --

"I do solemnly promise, that so long as I remain a student of this College-

- I will discountenance all proceedings commonly known as hazing and will do my utmost to promote a healthy tone of feeling against them
- 2 And, in particular, I will not interfere in any way with the personal liberty of any student, as, for example, by entering into, or remaining in, his room against his will, and I will not subject any student, or countenance his being subjected, to any indignity of any kind whatsoever

These promises I make, fully understanding that any violation of them will render me liable to immediate expulsion from the College "

UNIVERSITY DISCIPLING

Every regular student of Trinity College must conform to the regulations of the University when in attendance upon University lectures and examinations He must also pay the Hart House, Library, and other University fees to the Bursar of the University

KEEPING TERMS

The College regulations require regular attendance at Lectures, 80 per cent of Lectures being necessary to the keeping of term

Students in Arts who fail to keep their term, or are regarded as being otherwise unsatisfactory in respect of their work or conduct, will not be certified to the Registrar of the University for admission to the Annual Examination of the University in May

NON-MATRICULATED STUDENTS

Students may be admitted to College by the Provost without matriculation if he deems them to be sufficiently advanced in their studies to profit by the lectures

GOVERNMENT OF THE COLLEGE

By the provisions of the Royal Charter, the government of the University of Trinity College is vested in the Corporation, which body, by an Act of the Legislature of the Province of Canada (15 Vict ch 32), is composed of 1 The Bishops of the six Diocesse into which the original Diocese of Toronto has been divided, 2 The Trustees, 3 The Council

The Council is made up of the following classes of members

EX OFFICIO MEMBERS

The Chancellor and ex-Chancellors of the University of Trinity College, the Provost, the Deans of Residence, Arts, and Divinity, the Registrar of Trinity College, the Chairman of Convocation, and the Headmaster of Trinity College School, Port Hope

MEMBERS NOMINATED

By the Synod of each Diocese of the Province of Ontario, two clergymen and two laymen

By the Bishops of Ottawa, Algoma, Ontario, Huron, Toronto and Niagara, four members each, representing their respective Dioceses, or two only, if the Synod of the Diocese elects members

By each Medical, Musical, or Theological College affiliated with the University of Trinity College, one member

MEMBERS ELECTED

By the College Committee, one of the professors

By the graduates in Arts and Divinity who are members of Convocation (see below) eight members, to hold office for four years, two retiring annually

By the graduates in Law two members, to hold office for two years, one returning annually

By the graduates in Medicine who are members of Convocation two members, to hold office for two years, one retiring annually

By the associate members of Convocation (see below) two members, to hold office for two years, one retiring annually

By the sustaining members of Convocation, two members, to hold office for two years, one retiring annually

By the whole Corporation ten members, elected for four years, of whom at least two shall be engaged in educational work in the High School system of the Province

CHANCELLOR

J A Worrell, KC, MA, DCL

VICE-CHANCELLOR AND PROVOST

THE REV CHARLES ALLEN SEAGER, M A , D D , LL D

THE CORPORATION

THE BISHOPS

THE MOST REVEREND THE LORD ARCHBISHOP OF ALGOMA
THE RIGHT REVEREND THE LORD BISHOP OF HURON
THE RIGHT REVEREND THE LORD BISHOP OF TORONTO
THE RIGHT REVEREND THE LORD BISHOP OF NIAGARA

THE RIGHT REVEREND THE LORD BISHOP OF OTTAWA

THE RIGHT REVEREND THE LORD BISHOP OF ONTARIO

TRUSTEE

THE HONOURABLE FEATHERSTON OSLER, K.C., D.C.L.

COUNCIL 1 Ex Officso Members

THIS CHANGELOR OF THE UNIVERSITY OF TENRITY COLLEGE, K. C., M. A., D. D. L. THE REVEREND THE PROVOST OF TENRITY COLLEGE, M. A., D. D., LL D., THE DEAN OF RESIDENCE, M. A., THE REGISTRAR OF THE UNIVERSITY OF THIS TY. COLLEGE, M. A., THE DEAN OF THIS FUUTH OF ARTS, M. A., D. D., THE REVEREND THE DEAN OF THIS FACULTY OF DIVINITY, M. A., PH. D., D. D., W. H. PEPLER, M. D., C. M., J. R. C. P., CHARMAN OF CONVOCATION, THE REVEREND F. GRAINAN DECKING, M. A. (COMIGN.), D. D., HEADMASTER OF THIS COLLEGE. SCHOOL, PORT HOME

II Representative Elected by the Staff

A H Young, DCL, Professor of German

III Elected by the Corporation

THE REV PROFESSOR C J S BUTHUME, M A, D C L, TOTONIO MAJON-GEN SER HENNY M PELLATT, C V O, D C L, TOTONIO SIE EMMON OSLER, TOTONIO PETER PERRY, M A, FEGURE J A HOUSTON, M A TOTONIO KIRWAN MALTH, M A, Hamulton A H CAMPBUL, B A (Tw.), TOTONIO ELIMB HENDESON, M A, TOTONIO LIEUT-COL HENNY BROCK, D C L, TOTONIO LIEUT-COL HENNY BROCK, D C L, TOTONIO JON CATO, E.SO, TOTONIO

IV Nomenated by the Archbishop of Algoria

THE VENERABLE GOWAN GILLMOR, D D, Sault Ste Marie, Archdeason of Algoma

THE REVEREND CANON PIERCY, Sturgeon Falls
THE REVEREND CANON BURT, L TH., Parry Sound

THE REVEREND CANON BURT, L TH, Parry Soun-THE REVEREND F H HINCKS, M A. Haileybury

V Nomenated by the Bishop of Huron The Reverend Canon C R Gunne, M A. London

VI Elected by the Synod of Huron

HIS HONOUR JUDGE HARDY, Brantford
THE VENERABLE J B FOTHERINGHAM, B A, Brantford, Archdeacon of
Elgin

VII Nominitaed by the Bishop of Toronto
THE REVEREND CANON PLUMETER, M. A., TORONTO
THE REVEREND CANON RIGHY, M. A., LL. D., PORT HODE
THE HONOURABLE MR. JUSTICE ORDE, TORONTO

VIII Nommaled by the Bishop of Niagara
THE VERY REVEREND D T OWEN, LTH, DD, Hamilton, Dean of
Niagara

W M BRANDON, BA, BCL, Hamilton

IX Elected by the Synod of Niagara

THE REVEREND R H FERGUSON, M A, B D, Guelph, E T LIGHTBOURN, ESO, Oakville

C S SCOTT, Esq., Hamilton, THE REVEREND CANON BROUGHALL, M.A.St Catharines

X Nominated by the Bishop of Ottawa

THE REVEREND G A BRUNET, B A, Pakenham
THE REVEREND H A E CLARER, M A, Bell's Corners

XI Elected by the Synod of Ottawa

THE REVEREND CANON BEDFORD-JONES, MA, DD
THE REVEREND J H DIXON, MA, BD, Ottawa
CHAS MORSE, KC, DCL, Ottawa
JSL MCNEELEY, MA, Perth

XII Nominated by the Bishop of Ontario

THE VERY REVEREND G L STARR, MA, DD, Kingston, Dean of Onlario THE VENDRABLE G R BRAMISH, MA, Belleville, Archdeacon of Onlario XIII Elected by the Synod of Ontarso

THE REVEREND J H H COLEMAN, MA, Napanee
THE REVEREND JOHN LYONS, MA, RD, Picton
J B WALKEM, KC, Chancellor of the Diocese, Kingston
Phulp Du Moulin. Eso. Kingston

XIV Naminated by Transiv Medical College

I H McConnell, M D , C M , Toronto

XV Nominated by the Ontario Medical College for Women

R. B. NEVITT, B.A., M.D., C.M., Toronto

XVI Nominated by the Toronto Conservatory of Music Albert Ham, Mus Doc, FRCO, Toronto

XVII Elected by Convocation

(a) Graduates in Aris and Divinity

THE REVEREND CANON J S BROUGHALL, M A, Toronto, and G C HEWARD. M A, Toronto, to hold office to 1924

THE REVEREND R C BLAGRAVE, BA, DD, Peterborough, and R J READE, MA, MD, CM, Toronto, to hold office to 1925

R B BEAUMONT, MA, Toronto, and
THE REVEREND WALTER H WHITE, MA, Toronto, to hold office to

COL C S Macinnes, C M G , K C , M A , Toronto, and The Reverend Canon Plummer, L Tn , Toronto, to hold office to 1927

(b) Graduates in Lain

D T SYMONS, K C, B C L, Toronto, to hold office to 1924
THE HONOURABLE MR JUSTICE HODGINS, Toronto, to hold office to 1925

(c) Graduates in Medicine

GEO STEWART CAMERON, M.D., C.M., Peterborough, to hold office to 1924 FRED LE M. GRASEIT, M.B., C.M., Toronto, to hold office to 1925

(d) Elected by Associates of Convocation F GORDON OSLER, Esq., Toronto, to hold office to 1924 JOHN C WEDD, Esq., to hold office to 1925

(e) Elected by Sustaining Members of Convocation.

FRED W FEE, Esq., Ottawa, to hold office to 1924

C M Baldwin, MA, Toronto, to hold office to 1925

XVII Elected by the Alumnae Association of St Hilda's College
M McLaughlin, Esq
Maior G B Strathy

SECRETARY AND BURSAR

SYDNEY H IONES, Eso.

HONORARY TREASURER

MAJOR-GEN SIR H M PELLATT, C.VO, DCL

Auditors

REV C A SEAGER (honorary)
MESSRS WELCH, CAMPBELL and LAWLESS, Chartered Accountants

COMMISSION ON POLICY AND BUILDINGS

COL H C OSBORNE, C M G . Ottawa. Chareman GERALD R LARKIN, Eso, Toronto, Vice-Chairman VAUGHAN MACLEAN HOWARD, Eso, Toronto, Secretary The Chancellor Sydney H Jones, Esq. Chairman of Convocation Angus Macdonald, M A The Provost Wilmot L Matthews, Esq. Rev T C S Macklem, M A , D D George W Morley, B A . LL B Major-Gen Sir Henry Pellatt W A Child, Esq (Hamilton) Prof A H Young, MA, DCL C S Scott, Esq (Hamilton) Prof L C A Hodgins, M A F W Fee, Esq (Ottawa) Col C S MacInnes, C M G Major-General I T Fotheringham, Lt -Col Henry Brock CMG Major G B Strathy Dr. Graham Campbell Dr R I Reade Dr D I Govern D T Symons, KC, BCL F Gordon Osler, Esq. A H Campbell, B A

CONVOCATION

Convocation, as at present organized, consists (in addition to the Chancellor, the Provoc, the Vice-Proves, and the Professors of Trinity College) of all graduates who pay an annual fee of five dollars or upwards. It has been placed by the Corporation in the position of a Sanding Committee of that body, and its members are in this way enabled, through their representatives, formally to lay their resolutions before the governing body of the University Moreover, it is represented by fourteen members on the Corporation (See above) The Charman is ex-office a member of the Corporation

An annual meeting for the transaction of business is held every year in the Michaelmas Term

Friends of the University who are not graduates may become associate members of Convocation by the same annual payment of five dollars or upwards Subscribers of a hundred dollars and upwards annually are known as sustaining members

Associate and Sustaining Members have the right of speaking and of voting at annual and other meetings of Convocation They also elect annually four representatives to the Corporation

The Chancellor of the University of Trinity College is elected for a period of five years by the graduate members of Convocation in good standing

The Caput of Convocation, before which degrees are passed and conferred, consists of the Vice-Chancellor and four members of Convocation. to be elected by Convocation at the annual November meeting

Since federation the only degrees conferred by the University of Trinity College are those in the Faculty of Divinity

CHAIRMAN OF CONVOCATION W. H. PEPLER, M.D., CM, LRCP

CLERK OF CONVOCATION THE REVEREND S CHILDS, BA, BD

EXECUTIVE COMMITTER

(1) Ex officeo Members-The Chancellor, the Chaurman, the Clerk, the Provost. The Dean of Residence, The Registrar, the Dean of the Faculty of Arts, the Dean of the Faculty of Divinity, and former Chairmen of Convocation-J A Worrell, MA, KC, DCL, D T Symonds, KC, BCL, R B Beaumont, MA, and D J Goggin, MA, DCL

(2) Elected Members C M Baldwin, M A

Sydney H Jones, Esq. The Rev Canon W I Brain, M A Miss M Cartwright, B A The Rev P J Dykes, B A. Philip Dykes, Esq. G C Heward, M A

H G Keen, B A A Angus Macdonald, M A J W S Corley, K C The Rev H F D Woodcock, M A The Rev W H White, M A

SCHOLARS AND PRIZEMEN

1923 Arts

FOURTH VEAR-

His Excellency the Governor-General's Silver Medal for the Best Degree—I F Day

His Excellency the Governor-General's Bronze Medal for Headship of St Hilda's College—Miss M A Pickford

The Prize in Political Science—J F Day

The Prize in the Pass Course-Miss H I Hope

The John H Moss Memorial Supplemental Award—Miss M A Pickford

THIRD YEAR-

The Jubilee Scholarsnip-L A Spencer

SECOND YEAR-

The Hart Moorhouse Scholarship-A B Robertson

MATRICULATION SCHOLARSHIPS

1922

In 1922 there were no awards

DIVINITY CLASS PRIZE LIST

FOURTH YEAR-

General Proficiency—K W Hill, B A Dogmatic Theology—K W Hill, B A

THIRD YEAR-

General Proficiency—G N Luxton Church History—G N Luxton

BOTH YEARS-

Greek Testament—F H Mason, B A Hebrew—No award A Apologetics—W A Brown, B A Old Testament—G N Luxton New Testament—K W Hill, B A Patrestice—F H Mason, B A Listurges II I —G, N Luxton Sermon Prev—F H Mason, B A

McDonald Prizes for Bible Knowledge-

1 J F Davidson, B A

2 W A Brown, B A 3 K W Hill, B A

ESSAY PRIZE-

I F Davidson, B A

THE HAMILTON MEMORIAL PRIZE-

READING PRIZES-

College—J F Davidson, B A

Doolstille (for improvement)—F H Mason, B A

Osler—1 J F Davidson, B A

2 J F Bannell and K W Hill, B A, asg

ST. MICHAEL'S COLLEGE

ST MICHAEL'S COLLEGE

St Michael's College was founded in 1852, at the request of the Rt Rev Dr de Charbonnel, then Bishop of Toronto It was established for the purpose of combining religious instruction with a liberal education

For a number of years it was granted state aid, in common with the other arts colleges of the Provinces. This came to an end when the Legislature of Ontario finally decided that no financial assistance should thereafter be given to denominational institutions.

In 1881, the College was affiliated with the University of Toronto, an arrangement having been entered into by which students proceeding to the degree of BA should attend lectures at University College in all subjects excepting Philosophy and History

When in 1883-1884 a movement was on foot looking to the federation of every denominational college of the Province with the Provincial University, 5t Michael's was the first to accept the terms proposed, and in 1890, federated upon the proclamation of the University Federation Act

From the commencement it was understood that such arrangements could not be other than experimental, and meanwhule it beame more and more apparent that the experiment must end in failure. After a quarter of a century of affiliation and federation, during which time the University population had been multiplied by five or six, there was searcely any increase in the number of Catholic students attending University College. During those same years, the Catholic Colleges of the Province had been constantly increasing in the number of their students. It was evident that the plan in operation was not of the line due so except the confidence of the Catholic population. That population evidently would not favour a purely secular education.

In 1906, St Michael's found itself in a position to enter upon a scheme of providing instruction in all subjects known as "College Subjects", and made application to be admitted to federation on the same terms as Victoria and Transty Colleges, claiming with them the privilege of free instruction for its students in Unnersity subjects. In response to this application, provision was made in the University Act of 1906 for the development of this scheme, upon the completion of which St Michael's succeeds to the rank and privileges of a "College of the University". This plan has been worked out with the most satisfactory results.

The Catholic Church does not understand education without religious instruction. In St. Michael's, in every year of the student's course, a due proportion of time is reserved for this, and for the preservation of the religious spirit the greater number of the staff is chosen from the ranks of

the clergy It must be remembered, however, that St Michael's is purely an Arts College, and has no theological faculty as such

It is held as a fundamental principle, that the intimate association of students with one another, and with their teachers, contributes as much to true education as do the lecture room and library. In accordance with this, the majority of the students live in residence. The men students reside at St. Michael's College, the women students reside at St. Goseph's College, or Loretto Abbey College, and are subject from the point of view of discipline to the religious communities in Adarge of these institutions

Administrative Officers

| REV H CARR, B A | Superio |
|------------------------|---------------------|
| REV H S BELLISLE, M A | Director of Studie: |
| REV J B WALSH, M A | Bursa |
| REV E J McCorkell, M A | Registra |

SCHOLARSHIPS AND PRIZES 1923

FOURTH YEAR-

- The M J O'Brien Prize for the highest first class honours in Philosophy-No award
- The Dockeray Prize to the student ranking highest in Pass English— Miss E Dawson

TRIPD VEAR-

- The Phelan Prize to the student ranking highest in Honour English— E C LeBel
- The Kernahan Prize for highest first class honours in Philosophy--L Barnett

SECOND YEAR-

- The Kernahan Prize for the highest first class honours in Philosophy—
 T. Murtha
- The English Prize to the student ranking highest in Pass English—
 T McLaughlin

EIDST VEAU-

- The English Prize to the student ranking highest in Pass English— Miss M Phelan
 - Knights of Columbus Scholarships to the four students ranking highest in general proficiency—J P Kane, Miss N Storey, Miss M Phelan. B Harrigan

TUNIOR MATRICULATION-

The Silver Episcopal Jubilee Scholarship-Miss A Lee





DEGREES AND DIPLOMAS IN MEDICINE

- The thirty-eighth session since the re-establishment of the Faculty of Medicine of the University of Toronto will commence on Tuesday, Sentember 30th, 1924.
- 2 The Degrees in Medicine are Bachelor of Medicine—M B, Bachelor of Science—B Sc (Med), Doctor of Medicine—M D, and Master of Surgery—Ch M
- The Diplomas in Medicine are —Diploma of Public Health—D P H, and Diploma in Radiology—D R

DEGREE OF BACHELOR OF MEDICINE

3 Candidates for the degree of Bachelor of Medicine are required to matriculate and to attend during ext sessions of at least eight months each the courses of instruction presented, and to pass examinations taken at the end of each session

ENTRANCE REQUIREMENTS

- 4 Details in individual cases as to entrance requirements to the University, may be obtained on application to the Registrar of the University
- 8 A candidate for admission to the First Year in the Faculty of Medicine must produce satisfactory certificates of good character and of having completed the seventeenth year of his age not referre the first of October of the year in which he proposes to register, only under exceptional circumstances will a candidate of thirty years or more be admission.

He must also present certificates giving him full credit in the following subjects of Pass and Honour Matriculation

PASS MATRICULATION

LATIN (Authors and Composition)

ENGLISE (Literature and Composition)

HISTORY (British and Ancient)

MATREMATICS (Algebra and Geometry)

EXPERIMENTAL SCIENCE (Physics and Chemistry)

Any one of

GREEK (Authors and Composition)
FRENCH (Authors and Composition)
GERMAN (Authors and Composition)
SPANISH (Authors and Composition)
ITALIAN (Authors and Composition)

HONOUR MATRICITATION

ENGLISH (Literature and Composition)
MATHEMATICS (Algebra, Geometry and Trigonometry)
One of

LATIN (Authors and Composition)
GREEK (Authors and Composition)

FRENCH (Authors and Composition)
GERMAN (Authors and Composition)

NOTE Physics of Chemistry or Biology of Honour Matriculation may be substituted for Trigonometry

- 6 A candidate possessing a degree in Arts from any recognized University may be considered as having fulfilled the entrance requirements
- 7 A candidate coming from a Province of Canada other than Ontario must present certificates of a standard equivalent to that required from students of the Province of Ontario.
- 8 Students are required to complete above matriculation requirements before being admitted to the course in Medicine
- 9 A student who has fully completed the First Year in the Raculty of Arts of the University of Toronto, will be admitted to the First Year in the Faculty of Medicine, provided he has at least Pass Matriculation standing in Experimental Sceneo. No fee will be charged for transferring from the Faculty of Arts to that of Medicine

APPLICATION FOR EQUIVALENT STANDING

- 10 Any student of another University or College who desires to be admitted to the Faculty of Medicance of the University with equivalent standing is required first to communicate with the Registrar of the University, forwarding to him a full statement of preliminary education with certificates After receiving notice from the Registrar that the entrance requirements have been met, the student should send an application to the Secretary of the Faculty of Medicane together with.
- (a) A calendar of the University in which he has studied, giving a full statement of the courses of study
- (b) A complete official statement of the course he has followed and the standing obtained in percentage
- (c) A certificate of moral character and conduct

After submission of this application to the Faculty Council the candidate will be notified as to the decision reached

No student from a Medical Faculty of another University will be accepted unless his certificates show that he has completed the work and examinations in the subjects for which the certificates are presented

REGISTRATION

- 11 Students dearing to enter the course in Medicine are required to submit their application form in duplicate along with the certificates on which they claim entrance standing, to the Registrar of the University, in Sincoe Hall, on or before September 1st. After this date each endied will be notified as to whether his application has been accepted not, a card of admission being enclosed to those applicants who are accepted.
- 12 On presentation of this card on or before the day of registration (September 30th) to the Secretary of the Faculty of Medicine, candidates will be officially registered by him as students in Medicine
- 13. Students in the Second and higher years will receive by mail from the Secretary, an application form for registration in the succeeding year. This form must be filled in and forwarded to the office of the Secretary of the Faculty of Medicine on or before September 1st.
- 14 On September 30th a student must present binself in person for his regularitation card which gives his number, section and class. No student shall be allowed to register in the Faculty of Medicine after the first day of term. No student shall be admitted to any laboratory or clinical class after its first meeting except at the discretion of the instructor concerned.
- 15 No student will be permitted to register in the second or any succeeding year until he has completed all the examinations of the preceding year
- 16 Only under exceptional circumstances will a student be permitted to repeat his year more than once
- 17 Subdivision into sections and clinical classes will be made by the Secretary Students wishing to be placed in the same section or clinical class must fyle personally signed applications conjointly with the Secretary on or before June 1st

ATTENDANCE

- 18 Students are required to attend lectures and receive practical instruction during each of the six years at this University
- 19 A student who fails to do satisfactory term work in any subject is not permitted to present himself for examination
- 20 In cases of students applying for temporary positions in hospitals, laboratories or for locarn tenens to physicians, the permission of the Faculty Council must be obtained before they will be allowed to absent themselves from the lectures and laboratory work of the University
- 21 Students who have completed the work of the Fifth Year are required, before commencing the course of studies of the Sixth Year, to undertake field work of one month's duration in Public Health and Pre-

\$150.00

ventive Medicine This course may be taken either in June or September The work will be carried on in any Department of Public Health in Ontario, recognized by the University as having adequate facilities for this instruction

Assignment of students to Health Departments, arrangement of time when the course is to be taken and the syllabus of work will be arranged for by the Department of Hygiene and Preventive Medicine before the close of the work of the Easter Term in the Fifth Year

22 No applications or petitions for exemptions from classes, laboratory work or examinations will be received or considered unless filed at the Secretary's office on or before October 15th of any year

FRES

REGULAR STUDENTS IN MEDICINE

- 23 All University fees are payable at the Bursar's office in the Main University Building, between the hours of ten and one o'clock, except on Saturday
 - 24 REGULAR STUDENTS First, Second, Third, Fourth, Fifth and Sixth Years—Annual Fee, including tutton, library, laboratory supply, hospital* and one annual evanuation—

| By instalments— | | |
|--|----|----|
| First instalment, if paid on or before November 10th | | 00 |
| Second instalment, if paid on or before February 10th | 78 | 00 |
| Hatt House and Students Administrative Council fee, to be paid | | |
| by all men students proceeding to the degree | 11 | 00 |
| Women Students Administrative Council Fee, to be paid by all | | |

If paid in full on or before November 10th

and one ennual eveningtion

women students proceeding to the degree 3 00
25 STUDENTS IN COMBINED COURSE IN ARTS AND MEDICINE
Annual Fee, including college registration, library, laboratory supply,

| and one annual Cammacon | Arts | Medical | |
|--|------------|-------------|-----------|
| | Fees | Fees | Total |
| First Year Arts | \$57 00 | 1 | \$57 00 |
| Second Year Arts | 58 00 | | 58 00 |
| Third Year Arts and Second Year Medicine | 57 00 | \$85 00 | 142 00 |
| Fourth Year Arts and Third Year Medicine | 62 00 | 85 00 | 147 00 |
| The fourth Family Edds and Courth Voor | e on the F | apults of 1 | fedicine. |

The fees for the Fourth, Fifth and Sixth Years in the Faculty of Medicin are as for regular students

The composite fee of \$150.00 includes one session's clinical facilities at the Toronto General Hospital, St. Michael's Hospital, or Toronto Western Hospital, and the Hospital for Sick Children, but does not cover the mudwifery ticket for the Burnside Lying-in Hospital, which must be obtained there.

| \$85 | 00 |
|------|--|
| | |
| | |
| 44 | 00 |
| | |
| \$10 | 00 |
| 100 | 00 |
| 150 | 00 |
| | |
| 75 | 00 |
| | |
| 75 | 00 |
| 20 | 00 |
| 100 | 00 |
| 400 | 00 |
| | 43 44 810 100 150 75 75 20 100 |

27 All of the above fees are payable in advance After November 10th. a penalty of \$1 00 per month will be imposed until the whole amount is paid In the case of payment by instalments the same rule as to penalty will apply Students must have paid fees due in first term before proceeding to the work of the second term A student will not be admitted to any of the University lectures or laboratories who is in arrears for his fees

28 GENERAL PERS

| Matriculation, or registration of Matriculation | ≨ 5 00 |
|---|---------------|
| Supplemental examinations | 10 00 |
| Admission ad eundem statum | 10.00 |
| Degree of M B | 20 00 |
| Degree of B Sc (Med) | 10 00 |
| Admission ad eurodem aradum | 20 00 |

20 00 In the case of candidates for the Final Evaminations, the fee for the Jegree must be paid to the Bursar not later than the 20th of March

HART HOUSE EDE

29 The annual fee

\$8.00

66 00 00

Every male student in attendance, proceeding to a Bachelor's degree in the Faculty of Medicine is required to pay to the Bursar before December 1st the annual fee of eight dollars for the maintenance of Hart House 1f this fee is not paid by the above date a penalty of two dollars will be imposed, making the total fee ten dollars

STUDENTS' ADMINISTRATIVE COUNCIL FEE

30 The annual fee

\$3 00

Every male student in attenedane proceeding to a Bachelor's degree in the Faculty of Medicine is required to pay to the Bursar at the time of the entry of his name with the Registrar the annual fee of three dollars for the maintenance of the Students' Administrative Council

WOMEN STITUENTS ADMINISTRATIVE COUNCIL FOR

21 The Annual Fee

\$3.00

Every woman student in attendance, proceeding to a Bachelors degree in the Faculty of Medicine, is required to pay to the Bursar at the time of the entry of her name with the Secretary, the annual fee of three dollars for the maintenance of the Women Students Administrative Council

MEN'S PRESIDAL TRAINING PER

32 The annual fee

\$5.00

Every male student in attendance proceeding to a Bachelor's Degree in the Faculty of Medicine is required to pay to the Bursar the annual Physical Training fee of \$5 00 at the opening of each session in which Physical Training is compulsory for that Student

WOMEN'S PRYSICAL TRAINING FEE

33 The annual fee

\$4 00

Every woman student in attendance proceeding to a Bachelor's Degree in the Faculty of Medicine is required to pay to the Bursar the Physical Training Fee of \$4 00 at the opening of each session in which Physical Training is compulsory for such student

SUPPLEMENTARY PHYSICAL TRAINING FEE

34 Supplemental fee

\$10 00

Every student who has neglected to complete satisfactorily the course in Physical Training of the First or Second Year and who must take this work during the Second or Third Year respectively of his or her course, will be required to pay to the Bursar at the opening of the session a Supplemental fee of \$10.00, in addition to the prescribed Physical Training Fee

MEDICAL SOCIETY FER

35 The annual fee

\$2.00

Every student in attendance proceeding to a Bachelor's Degree in the Faculty of Medicine is required to pay to the Bursar at the opening of the Session, an annual fee of \$2 00 for the maintenance of the Medical Society

MICROSCOPES

36 Every student entering the Faculty of Medicine in the Session 1924-1925 will be required to provide himself at the commencement of the third year of his studies, with a microscope of approved design. The microscope must be of substantial construction, and be provided as a minimum, with the following accessories -- Objectives -- 16 mm, 4 mm and 18 mm oil immersion, oculars ×5×10, triple nose piece, and a substage condenser with an iris diaphragm. Such an instrument is an essential part of the equipment of a practitioner in medicine

Arrangements may be made for the purchase of such an instrument on a deferred payment plan through the Faculty of Medicine

INSTRUCTION

37 The course of instruction given by the Faculty of Medicine in preparing students for the degree of M B consists of six sessions of eight months each

The course is so framed that the requirements of the various Provincial Licensing bodies are fulfilled and it aims at giving the student such a training in the sciences as is now exacted of all those who desire to obtain any British Medical qualification in addition to a Canadian one

OPTIONS OF PRIMARY YEARS

38 The student of Medicine is reminded that during his years of study he is preparing himself to enter a profession which presents manifold and diverse aspects No prescribed course of study of practicable length can by any possibility fit the student for all of the special careers which the profession of medicine offers. The curriculum provided by the Faculty of Medicine is designed to furnish a framework of knowledge and technical skill which will adequately equip all students for the general practice of medicine and its branches, the time allotted for this purpose, in every subject of the course, being well in excess of that required as the minimum by examining boards and Universities in this and other countries. The six years' curriculum, however, also provides for the student filling in and ann lifying his regular work with special studies that are designed either to broaden his general education, and therefore, make him better fitted for the practice of medicine, or to enable him to undergo, in certain of the subjects of the curriculum, a somewhat more intensive training than is essential for all students, so as to prepare him for some particular type of medical career. To enable the student to accomplish these purposes a number of hours of optional study are prescribed, the precise subjects of study being largely left to the student's choice. It is, however, expected that this choice will not be aimless, but made of set purpose and designed to some particular end

Final selection of options should be made in consultation with the Class Adviser (see Par 40)

The optonal courses available in the six year curriculum are of two types, entitled for covenence, Cultural Options and Scientific Options During the First Year no Scientific Options are available, but each student must take one Cultural Option, during the Second and Third Years he must take one Cultural Option and one Scientific Option

The following subjects are available for options
First Year—Cultural Options

English Mathematics

Scientific French Scientific German Second Year-Cultural Options Scientific Options

English Chemistry (Volumetric Analysis)
Mathematics Physics
Scientific French Biology (Herodyty and Francisc)

Scientific French Biology (Heredity and Eugenics) Scientific German

History Psychology

Economics Philosophy

Third Year-Cultural Options Scientific Options

English Physics
Mathematics Problems of Biology

Scientific French Anatomy
Scientific German Embryology

History Parasitology
Psychology Cytology

Economics

Philosophy History of Physiology

The so-called "Cultural Options" are provided in order that the student may be afforded, through them, an opportunity of acquiring a somewhat broader field of interest than that provided by a curriculum confined strictly to Medical subjects A student who has attained some night into such subjects as History, Economics, English, Philosophy, etc., and who has learned to speak and write in a clear, simple and convinging manner, is necessarily better prepared to uphold the traditions of his profession by entering with intelligence into the life and interest of the community, than one whose outlook is restricted to the field of Medical Science

The Scientific Options are provided in order to enable a student to perform more advanced work in the departments of Medical science in which he is especially interested. They also supply facilities for those students who wish to enter certain special fields after graduation, such as Psychiatry, Public Health or Laboratory Investigation For example, the student who intends to devote himself to the study of Psychiatry is recommended to take the options in Psychology and Biology in his second year and Psychology in his third year. The student desiring to work in the field of Public Health is advised to take the course in Economics in order that he may comprehend the social and statistical aspects of such work, the course in Parasitology which will acquaint him with the structure, habits and control of disease-bearing insects, and that in Mathematics which provides the necessary familiarity with Statistical methods The student interested in a career of laboratory investigation, should select that subject which best leads to his chosen field He is reminded, however, that in all fields of Laboratory Research, Mathematics is of increasing 2

importance and he is therefore strongly urged to acquire a knowledge of elementary Calculus and of Statistical Methods by taking the Mathematics onton in each of the first three years

OPTIONS OF FINAL YEARS

39 Students who have attained a certain standing in the courses of the first three years will be permitted to continue taking options during the 4th, 5th and 6th years. The time assigned for option courses during the 4th, 5th and 6th years will be seen to be sufficient for one option (64 hours). The subjects from which the options may be chosen during each of the years are given in the attached table.

An option in any one of the following Departments may be taken in the Fourth Year

| Physiology | 4 | Physics |
|--------------|---|------------|
| Biochemistry | 5 | Psychiatry |
| Anatomy | 6 | Bacteriolo |

Options in any one of the following Departments may be taken during the Fifth Year, as follows

| 1 | Physiology | | Pathological Chemistry |
|---|--------------|----|------------------------|
| 2 | Biochemistry | 8 | Bacteriology and Serol |
| 3 | Anatomy | 9 | Hygiene |
| | DL | 10 | Pathology |

4 Physics 10 Pathology 5 Psychiatry 11 Military Studies 6 Pharmacology

Options in any one of the following Departments may be taken in the Sixth Year as follows

| 1 | Physiology | 9 | Hygiene |
|---|--------------|----|----------------------------|
| 2 | Biochemistry | 10 | Pathology |
| 8 | Anatomy | 11 | Medicine |
| 4 | Physics | 12 | Surgery |
| 5 | Psychiatry | 13 | Obstetrics and Gynaecology |
| 6 | Pharmacology | 14 | Therapeutics |

7 Pathological Chemistry. 15 Other clinical subjects 8 Bacteriology and Serology 16 Military Studies

Emphases should be placed on the principle that no attempt is made in the optional classes of the later years, to train students as speculists. There are, for example, no options in subjects like laryngology, ophthalmology, radiology, etc., since it is believed insound to train men to be speculists in these fields until they have thoroughly rounded out their medical or surgical education and have served a year as an interne in the hospital. On the other hand students who have definitely decided that their future career lies in one or other of the specialities will be privileged, during their obtoint time, to take oursesing the emedical or fundamental

sciences upon which these specialties depend. For example courses in Physics and Physiology dealing with the question of optics, acoustics, radiology, etc., are given

STUDENT ADVISER

40 In order to asset the student in making a correct choice of optional subjects, a student-adviser has been appointed for each year. Every student is required to submit to the adviser a list of his proposed studies and his time table, and the written approval of the adviser and the consistency of the Faculty Council will be required before the student's registration will be considered to have been completed. It is understood that any content plan of study designed by the student for a particular and intelligible purpose will be approved, but courses of study which appear to be manifestly musitable, and for his choice of which the student can furnish no adequate explanation or excuse, will not be approved by the neither and interest on the content of the con

Student Adviser for Class of 1925 Student Adviser for Class of 1926 Student Adviser for Class of 1927 Student Adviser for Class of 1928 Student Adviser for Class of 1929 Student Adviser for Class of 1930 PROF DUNCAN GRAHAM
DR E S RYERSON
PROF C L STARR
PROF H WASTENEYS
PROF A HUNTER
PROF I I R MACLEOD

41 SUBJECTS OF INSTRUCTION

NUMBER OF HOURS SPENT IN DIDACTIC, LABORATORY AND CLINICAL WORK

First Year

| Subject | Didactic | Laboratory | Total |
|--|----------------------------------|-------------------|---|
| Biology Chemistry Physics Science and Civilization English Expression Option Physical Training | 60 60 90 60 30 60 | 210 180 180 | 270 240 270 60 30 60 60 |
| | 360 | 570 | 990 |

Second Vent

| Subject | Didactic | Laboratory | Total |
|--------------------------|----------|------------|-------|
| Anatomy | 30 | 450 | 480 |
| Histology and Embryology | 75 | 165 | 240 |
| Chemistry | 60 | 45 | 105 |
| Option one | 60 | | 60 |
| Option two | | 90 | 90 |
| Physical Training | | | 60 |
| | - | - | |
| | 225 | 750 | 1,035 |

Third Year

| Subject | Didactic | Laboratory | Total |
|---|-----------------------|-------------------------------|-------------------------------|
| Physiology (including Psychology) Biochemistry Bacteriology Anatomy Option one Option two | 120 90 80 60 | 180 135 165 30 60 | 300 225 165 90 60 |
| | 330 | 570 | 900 |

Fourth Year

| Subject | Didactic | Laboratory | Chnical | Total |
|------------------------|----------|------------|---------|-------|
| Medicine | 90 | | 180 | 270 |
| Surgery | 60 | 1 | 120 | 180 |
| Pathology | 90 | 120 | i | 210 |
| Pathological Chemistry | 1 | 60 | | 60 |
| Psychiatry | 15 | 1 | 1 | 15 |
| Pharmacology | 30 | 90 | | 120 |
| Applied Anatomy | 30 | 1 | ł | 30 |
| Option | 1 | 60 | 1 | 60 |
| Op.a | | | | |
| | 315 | 330 | 800 | 945 |

Fifth Year

| Subject | Didactic | Laboratory | Clinical | Total |
|---|----------------------------------|------------|------------------|--|
| Medicine (including Paediatrics) Surgery Obstetrics and Gynaecology Pathology | 45 30 75 30 | 120 | 300 120 20 | 345 150 95 150 |
| Pathological Chemistry Ophthalmology Oto-Laryngology | 30 | 30 | 15 15 | 60 15 15 |
| Hygiene and Preventive Medicine Med Juris and Toxicology Psychiatry Therapeutics Radiology Applied Anatomy Option | 45 30 15 30 15 30 | 60 | 10 | 45 30 15 40 15 30 60 |
| | 375 | 210 | 480 | 1,08 |

Sixth Year

| | | Laboratory | Clinical | Total |
|-----------------------------|-----|------------|----------|-------|
| Medicine (including Paedia- | | | | |
| trics) | 60 | | 350 | 410 |
| Surgery | 30 | | 190 | 220 |
| Obstetrics and Gynaecology | 30 | | 140 | 170 |
| Pathology | 30 | 40 | | 70 |
| Ophthalmology | 10 | | 10 | 20 |
| Oto-Lary ngology | 10 | | 10 | 20 |
| Tygiene and Preventive | 1 3 | | | |
| Medicine | | | | 112* |
| sychiatry | 1.0 | | 10 | 10 |
| herapeutics | 5 | | 25 | 30 |
| Radiology | | 40 | | 40 |
| Dentistry | 5 | | 1 | 5 |
| listory of Medicine | 10 | | | 10 |
| fedical Ethics | 3 | | i | 3 |
| Life Insurance | 2 | | | 2 |
| | | _ | | |
| | 200 | 80 | 735 | 1.010 |

^{*}The student is required to spend one month in field work in Hygiene and Preventive Medicine between the Fifth and Sixth Years

COMBINED COURSE IN ARTS AND MEDICINE

- 42 It is possible for a student who takes this Biological and Medical Sciences Course, followed by the final years of the Medical Course, to obtain the degree of Bachelor of Arts at the end of four years and of Bachelor of Medicine after seven years study at the University When entering the third year of the Arts course, these students register in the second year of Medicine and on entering their fourth year Arts, they register in the third year Medicino.
- 43 In the curricula of this Arts Course the Science subjects are treated more extensively than they are in the Medical curriculum
- 44 The Buological and Medical Sciences Course completes the requirments of the first three years in Medicine with the eveption of Bacteriology of the Second Year - First and Second Years in the Biological and Medical Sciences Course are equivalent to the First Year in Medicine I Iterat two years work is the same as that for the course in Physiology and Blochemistry. The students sho proceed during the third and forthy are of the latter course take up the subjects of Physiology and Biochemistry without reference to Medicine.
- 45 These courses not only afford opportunities for a broader training and greater scientific attainment than is possible in the say years' course in Medium, but they fit the student for a much wider field of usefulness after graduation. The graduate who has taken one of the Science Courses in Arts and subsequently the Course in Medicine is qualified to devote his life to one of the purely scientific hisse of Medicine if he should so obect, after leaving the University, and, moreover, he is, undoubtedly, better fitted to practise his profession should be desire to repeare himself for that alone.
- 46 Students who proceed to the Arts degree through other Science Courses may, on entering the Faculty of Medicine, be allowed exemption from such subjects in Medicine as they have taken in the curricula of the Faculty of Atts

B Sc (MED) COURSE

- 47 The degree of B Sc (Med) has been added to the curriculum in Medicine so as to encourage scholarship and give official recognition to students who have done exceptionally well in the introductory medical sciences
- 1 Medical students of the Six Yeans' Course who have reached the end of the third year or subsequent years of their course, and who have maintained a standard to be subsequently determined in all of their classes, may become candidates for the degree provided (a) They spend one year longer (a) fourth year) in the medical sciences other than clinical in groups of courses which will be mapped out on the general basis that the

greater proportion of time is spent in one of the non-clinical laboratory departments, and the lesser proportion in cognate departments, any of the following sciences may be taken Anatomy, Biochemistry, Bacteriology, Physiology, Pathology, Pathology, Pathology, Pathology, Pathology, The thought and the proposed of the Arthern Arther

- 2 Graduates in Medicine irrespective of the standard of their entrance requirements, who have maintained a satisfactory standard throughout their entire medical course, may become candidates for the degree provided (a) They spend one adductantly are in work in some laborative department of this University (including those of the clinical years) and carry out a piece of research to the satisfaction of the had of the degratement. (b) They acquire facility in reading one modern language baseless English Medical graduates who return to laboratory departments as fellows or demonstrators will be eligible for the B Sc (Med) degree, but the successful orsecution of a successful orsecution or successful ors
- 3 The Council of the Faculty will not recommend the conferring of this degree because of the completion of a certain programme of studies Evidence must be exhibited of special aptitude and of high attainment in the field chosen by the candidate.
- 4 An oral examination will be conducted by the staff of the department in the major and in the minor subjects before the candidate is reported to the Faculty for the decree

ADMISSION TO EXAMINATIONS

- 48 Every student who proposes to present himself at the Annual or Supplemental Examinations must see that the Secretary has in his possession the following —
- 1 An Application for Examination The form supplied must be filled in, signed, and left in the Secretary's Office on or before March 16th Students presenting applications after this date must pay an additional fee of One Dollar
- 2 A Cerificate of Attendance indicating that he has complied with the regulations respecting attendance upon didactic, laboratory and climate work in each of the subjects of instruction for the year in which he seeks examination. This Cerificate is issued by the University and must be speed by the Head of each Department after completion of the course of contractions.

- 49 Candidates for the Degree of Backelor of Medicine are required to have on their Certificates of Attendance the following additional particulars —
- (a) A certificate of having conducted at least twenty labours under the supervision of the Head of the Department of Obstetrics and Gynaecology
- (b) A certificate of proficiency in vaccination, from the Head of the Department of Hygiene.
- (c) A certificate of having attended fifteen autopsies under the supervision of the Head of the Department of Pathology
- (d) A certificate of having administered anaesthetic on six occasions, under the supervision of the Head of the Department of Therapeutics
- 50 No candidate will be admitted to the Annual or Supplemental Examinations unless he has paid all the fees due from him
- 51 No candidate in a course involving practical work in a laboratory or clinic will be admitted to the Annual or Supplemental Examinations if the Professor under whom his work is carried on reports in writing to the Secretary that he has not done satisfactory laboratory or clinical work, or has signally failed in the practical examination.
- 52 Undergraduates who have been prevented from attending the Annual Examinations by sickness, domestic affliction, or other causes beyond their control, may make application for permission to present themselves for examination at the Supplemental Examinations in September, and must give satisfactory evidence of the cause of absorpt.

EXAMINATIONS

- 53 The Annual Examinations are held in May at the end of the First, Second, Third, Fourth, Fifth and Sixth academic years, and the Supplemental Examinations in September
 - 54 The minimum pass standard in each subject of examination is 50%.

SUBJECTS OF THE ANNUAL EXAMINATIONS

- 55 First Examination
- 1 Biology
- 2 Chemistry 3 Physics
- 4 Science and Civilization and English Expression
 - 5 Option

Candidates who fail in any subject or subjects at the Annual Examinations may present themselves at the Supplemental Examinations next ensuing. Candidates who fail in any subject or subjects at the Supplementa Examinations will only be permitted to register again to repeat the First Year of the course under very exceptional circumstances and must obtain the permission of the Faculty before being allowed to register

(The students' attention is particularly drawn to paragraph 15 page 13)

56 SECOND EXAMINATION

- 1 Anatomy
- 2 Histology, Embryology
- 3 Organic and Physical Chemistry
- 4 Option one
- 5 Option two

57 THIRD EXAMINATION

- Physiology
- 2 Biochemistry
- 3 Anatomy
- 4 Bacteriology 5 Option one
- 6 Option two

58 FOURTH EXAMINATION

- 1 Medicine 2 Surgery
- 3 Pathology
- 4 Pharmacology

59 FIRTH EVANINATION

- 1 Medicine (including Paediatrics)
- 2 Surgery
- 3 Obstetrics and Gynaecology
- 4 Pathology
- 5 Pathological Chemistry
- 6 Hygiene and Preventive Medicine
- 7 Medical Jurisprudence and Toxicology 8 Theraceutics
- 8 Therapeutic

60 SIXTH EXAMINATION

- 1 Medicine 2 Surgery
- 3 Obstetrics and Gynaecology
- 4 Paediatries 5 Clinical Ophthalmology
- 6 Clinical Oto-Lary ngology
- 7 Chnical Therapeutics

Note —Questions in Pathology may be asked on the papers in Medicine, Surgery or Obstetrics and Gynaecology

Questions on Applied Anatomy may be asked on the papers in Medicine and Surgery in the Fourth, Fifth and Sixth Examinations

61 Candidates at the Second, Third, Fourth, Fifth and Sixth Examinations who have passed in all but two subjects may present themselves at the Supplemental Examinations next ensuing

Candidates at the Second, Third, Fourth, Fifth and Sixth Examinations failing in three or more subjects must repeat the entire work of the year, including the examinations in every subject of the year.

- 62 Candidates at the Supplemental Examinations who succeed in passing in the one or the two subjects in which they were conditioned at the Annual Examinations shall be allowed their year
- 63 Candidates at the Supplemental Examinations who fail in any subject in which they were conditioned, will be required to repeat the entire work of the year, including the examinations thereof in every subject
- 64 Candidates of the First, Second or Third Years who at the Supplimental Examinations fail to pass in one optional subject in which they were conditioned will be permitted to register in the next succeeding year, but will be required to pass the examination in this option at the end of the year, before they will be allowed to proceed with their course.
- 65 Candidates in the Fourth, Fifth and Sixth Years taking Options must satisfy the Head of the Department concerned that they have done satisfactory work Reports on the character of their work are to be sent to the Secretary of the Faculty by the Head of the Department
- 68 It has been the regulation for some years that students be not incorred of the marks they have obtained at the Annual or Supplemental Examinations. In future a enterment will be sent to all students who have not completely passed in all examinations and to any other students who request the same set swrings, from the Secretary indicating their approximate standing as follows A-70% to 100%.

B-50% to 69% C-40% to 49% D-below 40%

In awarding prizes and fellowships the marks for optional subjects or courses will not be included

67 REGULATIONS FOR LICENCE TO PRACTISE

The right to practise Medicine in Canada or its provinces is not conferred when a student receives he degree from the University. There is a licensing body for the Dominion and one for each of the provinces, each of which has formulated certain medical laws and a standard of general education with which the student must comply before he is entitled to practise. One of these requirements is that it is necessary to be registered in the province in which the student intends to practise, five years before he can obtain a license. Students are therefore advised to complete their registration for license to practise in the First or Second Year.

For official information of all matters relative to the regulations for licence to practise in the various Provinces in the Dominion, students should communicate with the Registrar The following is a list of the names and addresses of the Registrars of the Medical Councils

For official information regarding the Medical Council of Canada address Dr R W Powell, 180 Cooper Street, Ottawa, Canada

Ontario-Dr H W Aikins, 170 University Ave, Toronto Quebec-Dr J Gauyieau, Dandurand Bldg, St Catherine St E.

Montreal New Brunswick—Dr John S Bentley, 138 Charlotte St, St John

Nova Scotia—Dr W H Hattie, Halifax
Prince Edward Island—Dr James Warburton, Kent St. Charlottetown.

Newfoundland-Dr T Mitchell, St John's Manitoba-Dr J E Coulter, 604 Boyd Bldg, Winning

Alberta—Dr G R Johnson, Calgary
Saskatchewan—Dr J McGregor Young, Regina

British Columbia—Dr A P Proctor, Vancouver

68 REGULATIONS FOR THE DEGREE OF DOCTOR OF MEDICINE AND MASTER OF SURGERY

The Degrees which the Faculty of Medicine, University of Toronto, offer to Graduate students are those of Doctor of Medicine (M D) and Master of Surgery (Ch M)

Before a candidate will be eligible to register for these degrees he must have fulfilled the following entrance requirements

(1) Graduated in Medicine from a recognized University

(2) Spent one year in a Hospital as an Interne on a rotating service or its equivalent (Two years general practice may be accepted as the equivalent of this)

Length of Course

The course will be normally of three years duration of twelve months each

to the first of the clinical years of the course. One full year's special work in one of the required laboratory subjects of the course may be accepted as equivalent to the laboratory year of the course. A graduate having the B Sc. (Med.) will be considered as having fulfilled this requirement. In very executional cases, both of the above afternatives may be allowed.

The Course will consist of

First Year (Clinical)

One year's instruction in Medicine or Surgery

This may be taken while the student is acting as a Hospital Interne in the selected clinical subject (This is in addition to the internship on a rotating service)

At the end of the first year the candidate must present a certificate to the School of Graduate Studies from the Physician or Surgeon in charge of the service in which the candidate has worked, stating the nature and details of the work done, and the degree of efficiency with which it has been carried on

Second Year (Laboratory)

One year's instruction in a laboratory subject

The student will devote the major part of his time for this year to work in one of the following laboratory departments and the minor part to work in any other two of these departments

- (a) Anatomy
- (b) Physiology(c) Biochemistry
- (d) Pathological Chemistry
- (e) Pathology
- (f) Bacteriology and Immunology
 - (g) Pharmacology
 - (h) Physics

At the end of the second year proceeding to the Degree of M D the candidate must pass a written and oral examination in the major and two minor subjects he has elected to take

- At the end of the second year proceeding to the Degree of Ch M, the candidate must pass a written and oral examination in the following subjects
 - (a) Pathology, including Bacteriology
 - (b) Anatomy
 - (c) Principles of Physiology

A candidate failing in either the written or oral examination in his major subject must repeat the year before being considered eligible for re-examination. A candidate failing in not more than one of his minor subjects may apply for a Supplemental examination in that subject in which he has failed.

Third Year (Chuical)

One year's instruction in Medicine or Surgery

One of the clinical years in the course for the Surgical Degree may be spent in the Department of Obstetrics and Gynaecology

This clinical year may be taken while holding a hospital appointment in the selected clinical department

At the end of the third year proceeding to the Degree of M D or Ch M the candidate must present a certificate to the School of Graduate Studies from the Physician or Surgeon in charge of the service on which he has worked, stating the nature and details of the work done and the degree of efficiency with which it has been carried out

The third year of the course must be taken in the University of Toronto in all cases

Candidates in Medicine or Surgery, besides being familiar with the

general field of the subject, must be able to make

- (a) A satisfactory examination of the Eye, Ear, Nose and Throat
- (b) A satisfactory pelvic examination
- (c) A satisfactory routine laboratory examination

Candidates must present a satisfactory thesis and pass an examination in the subjects of instruction at the end of the course Candidates proceeding to the Ch M must pass an examination in General Surgery

ADMISSION AD EUNDEM GRADUM

69 A graduate of any of the universities in Great Bintain or Ireland, if his degree be not an honorary one, may be admitted to the like degree in the University of Toronto. He must send in his certificate to the Registrar at least two weeks before the first meeting of the session of the Senate at which his application is to be brought forward.

SCHOLARSHIPS, MEDALS, PRIZES AND FELLOWSHIPS

THE GEORGE BROWN MEMORIAL SCHOLARSHIP IN MEDICAL SCIENCE

70 Dr A II F Barbour, of Edinburgh, having placed one thousand pounds sterling at the disposal of the University of Toronto, for the purpose of founding a Scholarship in Medical Scence in memory of the late Hon George Brown, the following regulations have been adopted with regard thereto—

This scholarship shall be called the George Brown Memoral Scholarship in Medical Science and shall be awarded annually at the Convocation for conferring degrees in Medicane to the Bachelor of Medicine who shall have distinguished himself most in the subjects of Anatomy, Biology, Physiology, Biochemistry, Pharmacology, Pathology and Pathological Chemistry

The award shall be made by a committee composed of the Professors in these subjects who shall report as to the successful candidates, after having given due attention to the results of the annual examinations, and to the character of the work done by the candidates in the University laboratories.

The holder of the scholarship during the year of tenure is required to engage in original research in any one of the laboratories of the University on some subject bearing on the advancement of medical science—the laboratory providing the material for the investigation

The scholarship is to be paid in two portions, two-thirds at the time of award and one-third six months later, on the holder giving satisfactory report (to whomsoever the University may appoint) of the work he has already done

A report of the research, when completed, is to be given to the University The value of the scholarship is three hundred dollars (\$800.00)

THE STARR MEDALS

71 The late Richard Noble Starr, M D., devised certain property for the encouragement of post-graduate study in Anatomy, Physiology and Pathology, and in fulfillment of this object one gold and two silver medials called the "Starr Medials", are awarded annually to three candidates for the degree of M D, who have shown by the theses which they have presented for that degree, that they have anccessfully pursued such study in any one of these subjects. The theses for which these medials are given must attain a standard approved of by the Board of Examiners, and relative value of the theses will determine the rank of the candidates for the medials.

George Armstrong Peters Scholarship

72 The Scholarship will be awarded biennially to a graduate student of the University of Toronto on the recommendation of the Department of Surgery

The first award was made in 1912. The holder of the Scholarship will be required to undertake work in one of the Departments of the University which will have some special bearing on Surgery.

This Scholarship will be available for any graduate who wishes to do special research work in connection with the Department of Surgery or in correlated subjects A graduate wishing to obtain the Scholarship must apply to the Department of Surgery and present his credentials, and the award will be made or the recommendation of the Department

The value of the Scholarship is two hundred dollars (\$200 00)

THE REEVE PRIZE

73 A portion of the Reeve Post-Graduate Fund will be devoted to establishing a prize of \$50.00, to be awarded annually for the best published report of work done in the laboratories by a research Fellow or junior member of the staff in any department in Medicine

The award shall be made in September by a Committee composed o the Professors of Anatomy, Physiology, Biochemistry, Pharmacology Pathology and Pathological Chemistry

THE CHAPPELL PRIZE

74 The late Dr. Walter F. Chappell, of New York, a graduate in the Faculty of Medicine of the University of Toronto, established a prize o Fifty Dollars (850 00) per annum to be awarded in alternate years to the best student of the final year in Clinical Medicine or Clinical Surgery In June, 1924, the prize will be awarded in Clinical Medicine. This priz is awarded on the recommendation of the Head of the Denartment

THE JAMES H RICHARDSON RESEARCH FELLOWSHIP IN ANATOMY

75 This Fellosahipof the annual value of Five hundred dollars (8500 00 has been established in memory of the late Dr James H Richardson, for many years Professor of Anatomy in the University of Toronto It is open to graduates in Médicine of the University of Toronto and of such the Tuniversities and Médical Schools as may be approved by the Normaning Committee and to students in the University of Toronto who shal have completed the third vear of the course in Médicine

The fellowship is awarded on the nomination of a Commuttee consisting of the Professor of Anatomy, the Professor of Biology and the Professor of Surgerv in the University of Toronto, and the holder of it is obliged during its tenure, to devote his entire time to investigation in Anatomy under the direction of the Professor of Anatomy in the University o Toronto. The fellowship is tenable for one year, but the holder of it is eligible for re-appointment for not more than two additional years, at the discretion of the University Senate upon the recommendation of the Nominating Commuting.

Applications for nomination to the Fellowship should be handed to the Professor of Anatomy not later than the first day of May of each year

ELLEN MICKLE FELLOWSHIP

76 A Fellowship, being the annual mome from an endowment of Teacty Five Thousand Dollars (825,000) has been established by the late Dr W J Mickle, known as "The Ellen Mickle Fellowship", to be given to the student (or students) who in the examinations at the end of the fifth year of the Six Years. Course in Medicine, shall have taken honours of the first class in at least three fourths of the subjects of that year, and shall have obtained the highest marks in the examinations. The award will be made to the above referred to student (or students) provided he proceed to the degree of Bachelor of Madicine in this University and spend one year in post graduate study approved by the Council of the Faculty of Medicine

Those students who obtain an average of 70% in all subjects of the year, and not less than 60% in any subject, shall be considered as having obtained Honour Standing

CHARLES MICKLE FELLOWSHIP

77 This Fellowship, bequesthed by the late Dr. W. J. Mickle, being the annual mome from an endowner of Twenty Pive Thousand Dollars (825,000) will be awarded annually to that member of the medical presson who is considered by the Council of the Faculty of Medicinion of the University of Toronto to have done most during the preceding ren veins to advance sound knowledge of a practical land in emiciliar art or science.

THE J J MACKENZIC PRIZE IN PATHOLOGY AND BACTERIOLOGY

78 The prize, consisting of the income from \$5,000, is the generous donation of Grahma Campbell, \$B, A, M B, C, M, in the memory of the late J J Mackenze, for many years Professor of Pathology and Bacteria, for many years Professor of Pathology and Bacteria older in the late of the final years is considered to have done the best work in these subjects dumning his undergraduate course

THE UBURATA FUND

79 The S Ubukata Fund of \$10,000, the gift of Mr S Ubukata, provides for the establishment of prizes, medals, scholarships and loans for which Japanese students of all faculties and colleges may be eligible Information regarding the conditions of award may be obtained from the Resistan of the University.

THE ROBERT BRUCE SCHOLARSHIP

80 The Robert Bruce Scholarship, founded from the Estate of the late Robert Bruce of Quebec, of the value of \$100, is open to undergraduates who have completed the First Year in the Faculty of Medicine, subject to the following conditions

- 1 This Scholarship is open only to students (a) who are of Scottish extraction, (b) who have complete Matriculation in this University as at the date of entrance, (c) who without some assistance would be hampered in entering upon a course of study in the University
- 2 A student who already holds a Scholarship of the value of at least \$100, exclusive of free tuition, cannot qualify for the above Scholarship
- 3 Applications for this Scholarship should be made to the Registrar of the University

COURSES FOR GRADUATES IN MEDICINE

81 The Faculty of Medicine of the University of Toronto recognizes that the practitioners of the Province are annous to keep closely in touch with the advances in Medicine, and that they have a claim on the Provincial University to aid them in doing so The Faculty considers this entails on it a dity second only to the instruction of the undergraduate

At the present time the large amount of undergraduate teaching makes it impossible to offer during the academic session set courses of sufficient variety to meet all the needs of those who seek further study

Those who have studied abroad know that the routine method is for the graduate to attend the instruction given to the students of the senior years in Medicine, to follow the ward rounds and to go to the out-patient department picking up what he can "The Faculty has opened the courses of instruction given to the higher years in Medicine to any one who cares to attend and refresh his knowledge in this way. A Standing Committee has been appointed whose duty it is to give any graduate interested, advice as to the clinics and lectures which should be taken and to confer with the heads of departments and individual teachers so as to arrange a course in advance for each applicant. Such a course may be modified by the committee if it does not prove suitable.

During each year graduates attend undergraduate courses of this kind All the library facilities of the University will be open to any post graduate student under the usual conditions

The staff fully realizes that every effort must be made to render the visit of each post-graduate student both pleasant and of real value — Instruction may be obtained as outlined above in the following

Medicine

Surgery Obstetrics and Gynaecology

Paediatrics

Otology, Rhinology, Laryngology

Ot hthalmology

Preventive Medicine

Parhalegy and Bacteriology

The University will impose a minimum fee of \$10.00 per month. This will be imposed for any course of less than a month as a registration fee. In such cases where extended work and attention is required, a special fee to cover the same will be arranged by the committee.

SPECIAL GRADUATE COURSES

82 The Faculty has during the past years arranged several special graduate courses A month's course in Paddatrics has been given in Ulya and several short courses in Medicine, Surgery and Obstetries and Gynacology, during the vacation months. These courses have been attended by a large number of graduates. The Faculty intends to arrange similar courses each year, but feels prepared at the present time to offer somewhat longer courses of, say, one month, to groups of students who wash instruction in any field of Medicine, if a sufficient number apply for the same. These will be announced from time to time in the bulletin. These courses are intended to be of a practical and useful character, covering a lamked field in a thorough manner.

SHORT COURSES IN RADIOLOGY

- 88 In order to meet the needs of those graduates in medicine who desire short courses of instruction in Radiology, it has been arranged to provide courses of one month each at the Toronto General Hospital Classes will be limited and an intensive schedule has been outlined to include
 - (a) Radiographic Technique
 - (b) Interpretation
 - (c) Gastro-Intestinal Examination
- In these courses the entire resources of this large clinic will be placed at the disposal of the student in the most practical manner possible

For full information and terms apply to the Secretary of the Faculty of Medicine, University of Toronto

EXTENSION LECTURES

84. By an arrangement with the Ontario Medical Association the Medical Faculty of the University has offered to the profession some 150 lectures on the most important subjects in various fields of medical science Application for these lectures may be made through the Secretary of the Ontario Medical Association, (from whom a copy of the titles of the lectures may be obtained.) Any society or group of physicians may apply for a course of lectures on any subsect.

85 CURRICULUM FOR THE DIPLOMA OF PUBLIC HEALTH

- 1 The University provides a Diploma of Public Health (D P H) on the following conditions —
- Candidates for the Diploma must be graduates in Medicine of this University or some other University recognized for this purpose by the Senate
- 3 The curriculum leading to the Diploma extends over one Winter Session of eight months and one Summer Session of three months
 - 4 The Winter Session is devoted to -

Laboratory Courses and Lectures in -

- (a) Bacteriology
- (b) Sanitary Chemistry
- (c) Parasitology
- and, to attendance at -
 - (d) Clinics for Communicable Diseases
 - (e) Psychopathic Clinics
 - (f) Venereal Diseases Clinics
 - (g) Tuberculosis Clinics
 - (h) Well-Baby Clinics
 (a) Ante-Natal Clinics

and, to Lectures or Practical Work in

- (j) General Hygiene (k) Immunology
- (I) Applied Physiology
- (n) Sanitary Engineering
- (n) Public Health Organization and Legislation, and Vital Statistics
- (a) History of Preventive Medicine and Epidemiology
- (b) Nutrition and Dietetics
- (g) Industrial Hygiene

The Provincial Board of Health of Ontano, the City Health Department of Toronto and the special Clinics at the Toronto General Hospital and the Hospital for Sick Children provide unusual facilities for instruction in the practice of Preventive Medicine

5 The Summer Session is spent in Field Work in Fablic Health under the supervision of a recognized Department of Health and include a study of the methods of dealing with communicable diseases, inspections of schools and other public buildings, factories and dismiss, inspections of water supplies and sewage disposal plants, food and meat inspection and other forms of municipal situation, and medical inspection of school children.

- 6 When the required courses of study have been completed, written and practical examinations will be held on the subjects of the curriculum specified in paragraph 4
- 7 Candidates who have passed the examinations and who have satisfactorily completed the work specified in paragraph 5 will be granted the Dioloma in Public Health
- 8 The fee for the course, as outlined in paragraphs 3, 4 and 5, is \$150 00, payable in two instalments of \$75 00 each, at the beginning of the Fall Session, and the Winter Session respectively

 The fee for the Diploma is \$20 00
- 9 Candidates for the Diploma in Public Health are required to undertake the investigation of an assigned Public Health problem, complete the same and submit the results in the form of a report before being permitted to proceed to the examinations leading to the Diploma
- 10 Graduates in Medicine, who for a period of two years have been engaged in full-time Public Health work, may, under the following conditions, take the examination specified in paragraph 6, when they have completed the courses required in paragraph 4

The work required in the curriculum may be extended over a period of more than one academic year, and the examinations taken when all cours of study have been completed. A yearly fee of 75 00 payable at the beginning of the Fall Term, must be paid by candidates taking more than one year to complete the required courses (If only one year is taken to complete the work the fee is \$150.00).

- 11 Candidates who present satisfactory evidence of having completed work, the equivalent of that required in certain of the courses special in paragraphs 4 and 5, may petition to be granted exemption from attendance on such courses. This will apply only in the cases of candidates who have been for at least two years engaged in full-time Public Health work, and who at the time of respectations are so engaged.
- 12 The examination of those qualifying under clause 10 will be held in May and September, for others, in September only

86 CURRICULUM FOR THE DIPLOMA OF RADIOLOGY

The Faculty of Medicine, University of Toronto, has instituted a graduate course leading to a Diploma in Radiology

Candidates for the Diploma are required to

- (a) Be graduates in Medicine of this University or some other University recognized for this purpose by the Senate
- (b) Have spent at least one year after graduation as an interne in a recognized hospital
 - The Curriculum leading to the Diploma extends over one Winter session of eight months

The session well be denoted to courses in

PHYSICS The instruction in Physics will consist of three courses of lectures accompanied by practical work in illustrative experiments

The lecture courses are as follows

1 Radiation

In this course of lectures there will be discussed

(a) The origin of radiations, (b) the properties of various types of radiation, including infra red, ultra violet and visible rays. (c) absorption of radiations, (d) fluorescence and phosphorescence

2 Electricity, Magnetism and Roentgen Radiology

This course of lectures will consist in the treatment of (a) the fundamental idea of charge electricity, difference of potential, electromotive force, capacity, current and inductance, (b) the effects of electrical currents with particular attention paid to electromagnetism and the application of the latter in various measuring instruments, (c) detailed study of the principles underlying motors, dynamos, and other instruments used in X-ray technique, (d) the properties of electrons—the production of X-rays, and the properties and quantitative measurements of these rays

3 Radioactivity

This course of lectures will consist of the (a) isolation of radioactive substances, (b) radiations (L B and X-rays) emitted by radioactive substances and quantitative measurements of these three types of rays, (c) properties of radioactive emanations from radium, thorium and actinium. (d) radioactive transmutations generally with applications to selected problems

RADIOLOGY

(1) Anatomy

A detailed study in normal Anatomy from a Radiological aspect in infancy, adult life and idd age. The piphyses appearance of the ried in from various angles together with many abnormalities which do not constitute pathological processes, the changes which normally occur in bones and joints with advancing age and in old age. The normal anatomy of the thoractic and abdominal viscens.

(2) Pathology

A course in co-operation with the Department of Pathology in which a special study will be made of the pathology of all diseases which come within the range of X-ray and Radium methods either in diagnosis or treatment. In the latter a study will also be made of the histological changes brought about by X-ray or radium applications to various tissees

(3) Technique

A complete course in the technique of Radiography Ample facilities are provided for the student to personally carry out all procedures and to perfect himself in this side of the work. In the later part of his course he will be expected to take entire charge of one of the operating rooms

(4) X-ray Interpretation

In addition to the daily routine of plate interpretation there is now a classified library of several thousand plates including nearly all the unusual and interesting cases to be met with and these will be studied systematically. There is also an almost unlimited collection of other plates which are available for study.

(5) X-ray Therapy

A complete course in Therapy is provided. This will include all assets of this work from the superficial to the intensive use of voltages up to 250,000 together with the methods of measurement and calculation of all desages. The material available for this study is very large and diversified.

(6) Radsum

A course in Radium Therapy which for the present is limited to the use of Radium element

(7) Short Courses in Medicine and Surgery

As in Pathology, so in Medicine, Surgery and Gynaecology, courses will be arranged in collaboration with those Departments for Systematic

lectures and study of the various diseases or conditions under consideration in order that the student may be presented with the entire problem in its broader aspect

Examinations on the subjects of the curriculum will be held at the end of the session

Candidates who have passed the examinations and who present certificates of having satisfactorily completed the work specified will be granted the Diploma in Radiology

COURSES OF INSTRUCTION

CHEMISTRY

Professor of Organic Chemistry and Secretary of the Department of Chemistry
F B ALLAN

Professor F B KENRICK

Professor of Physical Chemistry W LASH MILLER

Associate Professor J B FERGUSON

Associate Professor of Electrochemistry J T Burt-Gerrans
Assistant Professors W S Funnell, W H Martin

Assistant Professor of Analytical Chemistry L T Rogers

Assisianis Miss E V Eastcott, Mrs M Lucas, W Gyberbll, J D
Garrard, A R Gordon, G I Hoover, C M Jephcott, M J
Mulligan, R A Prosser, E M Sparling, C W Sweitzer, R B

WALKER, A E R WESTMAN

All lectures and practical work will be given in the Chemistry Building

FIRST YEAR

Letiurs —Students attend a course of experimental lectures delivered reuce a week in the lecture thatter. This course embraces the study of the non-metallic and metallic elements and their principal compounds based on Mendelegist's classification of the elements. By special arrangement these lectures are given by Professor W. R. Lang, Head of the Decartment of Multiary Studies, and formerly Professor of Chemistry.

Practical Chemistry --- The laboratory work commences with quantitative and qualitative experiments illustrating the fund imental principles of chemistry, this is followed by work more intimately related to analytical chemistry. Instruction in quantitative methods of analysis is given

SPECIAL VEAR

Lectures —A course of lectures on the systematic classification of organic compounds and on elementary physical chemistry, twice a week

Practical Chemistry —A special laboratory course to accompany the above lecture course will be given during the Easter Term

Option -This is a course in volumetric analysis

Students working in the laboratory are provided with the necessary apparatus on making a deposit of four dollars at the commencement of the session, which will be returned at its close after the following charges have been deducted from it-

- (1) The cost of all apparatus broken or destroyed
 - (2) Any fines for breach of laboratory rules

No certificate will be given for the practical work unless the student has passed the practical examinations conducted during the session

Text-books—Modern Inorganic Chemistry, Mellor, Inorganic Chemistry, Newth, General Chemistry for Colleges, Alex Smith. Organic Chemistry for Physicians and Biologista, Cohen and Fischer, An Elementary Laboratory Course in Chemistry, Kenrick and Dellary

Books of reference recommended —Inorganic Chemistry, Richter, Organic Chemistry, Richter

PHYSICS

Professor and Director of the Physical Laboratory J C McLennan
Associate Professors E F Burton, John Satterly

Assistant Professors Lacellan Gilchrist, H. A. McTaggart

Demonstrators Colin Byrnes, Miss K. M. Crossley, Miss R. Carnahan,

Miss F. M. Ouivlan, A. G. Sbenstone

Assistant Demonstrators J E CURRIE, A C LEWIS

The work of instruction on Physics consists of a series of lectures and a course in practical work in the laboratories

FIRST YEAR

Lectures —The lectures on Physics will not only give a concise outline of the subject, but are intended to form a satisfactory foundation for future study in other branches of science.

A course of lectures on Practical Mathematics and Mechanics will be given 2 hours a week during the whole year. These lectures, which will be allustrated by many problems, will deal in a systematic way with mechanics, use of curves, lorarithms, etc.

There will be three lectures in Physics per week during the year, one lecture each week bears directly on the practical work assigned to the student, while the other two lectures each week are part of a course dealing more particularly with the principles of Physics of special use to students of Metican Pite following is an outline of the work covered.

1 Applied Mathematics and Calculations

Calculations of experimental results to show limits of accuracy contracted methods $\log \operatorname{arithms}$

Trigonometrical ratios defined, and simple relations deduced, reading of tables of sines, cosines and tangents

Graphical methods, equations to straight line and parabola, logarithmic curves, deduction of simple formulae from graphs, slope of curves from graphs

Simple ideas involved in the calculus, illustration of velocity of a falling body from $s=\frac{1}{2}$ gt²

2 MECHANICS

Measuring instruments, length, volume, verniers, micrometers

Forces conditions of equilibrium, resolution of forces, moments, centre of gravity, levers and simple machines

Velocity, acceleration, momentum, force, work and power, absolute and practical units in English and metric systems, mass and weight, value of 'g' Energy, kinetic and potential, transmutation of energy, law of conser-

vation of energy

Simple harmonic motion, the pendulum, combination of two motions perpendicular to each other, Lissajous figures, Blackburn's pendulum

3 Hydrostatics and Hydromechanics

Laws of pressure in fluids at rest, Pascal's Law and Archimedes' principle, specific gravity, the hydrostatic paradox, resultant vertical forces on walls, manometers, barometers, mercury and aneroid Bramah's press, pumps

Archimedes' principle in air, weight of atmosphere

Laws of pressure in fluids in motion, Bernoulli's principle, applications such as atomizer, Bunsen burner, filter pump, action of air in winds and curving of balls in flight

4 PROPERTIES OF MATTER

Principles of the kinetic theory of matter, structure of solids, liquids and gases, diffusion, molecules and molecular forces

Elastic properties of solids, bulk modulus, torsion modulus or rigidity, Young's modulus, micro-photographic study of metals, crystallization

Viscosity of fluids, velocity gradient, coefficient of viscosity, Poiscuille's law for tubes, experimental determination of coefficient, Ostwald viscosimeter, viscosity and temperature, relation to blood flow, capillaries

Surface tension, experimental illustrations, definition of coefficient and determination of same, energy of surface, shapes of free surfaces

Laws of gases, theoretical determination of pressure, $p = 1/3 \, mn \, V^2$, Boyle's Law, Charles' Law, laws of diffusion

Change of state, solid to liquid, liquid to gas, vapour pressure, with measurement, relation to temperature, vapour density, liquefaction of gases, critical temperature and pressure, low temperatures

Colloidal solutions, size of particles, physical properties, mobility, coagulation by electrolytes, Brownian movement and its molecular explanation, confirmation of the kinetic theory, dialysis, relation to body fluids and membranes

5. HEAT

Expansion of solids, liquids and gases, thermometers, Centigrade and Fahrenheit scales, absolute scale, maximum and minimum thermometers clinical thermometer.

Capacity for heat, calorie, specific heats, latent heat of vaporization and fusion. calorimetry

Heat as energy, mechanical equivalent of heat. Joule's law

Vapour pressure, vapour density, dew point, various forms of hygrometers, relative humidity

Radiation, laws of cooling, wave length of heat radiations, transmission of energy through space Conduction

6 Acoustics

Production, propagation and recording of sounds, characteristics of a note, pitch, intensity and quality, definition of wave length, determination of velocity, V=nh, resonance, stationary waves, organ pipes, laws of strings, membranes, voue production, structure of ear, interference of sound waves, beats and beat tones, absorption and reflection of sound, musical scales.

7 ELECTRICITY AND MAGNETISM

The fundamental phenomena associated with electrified bodies and the laws of the action of electrical charges. The methods of measurement of electrical charge, current, potential, expactly, resistance, conductance and the definition of the units of these quantities in the electrostatic, practical and electromagnetic systems.

The construction and action of the instruments used in measuring electrical quantities and the methods of calibrating them. These instruments include galvanometers, animeters, voltmeters, electrometers, potentiometers and waitmeters.

The properties of liquid conductors, and the measurement of their conductivity. Faraday's laws of electrolysis and the method of determination of the electro-chemical equivalent.

The properties and laws of action of magnets and of the magnetic fields associated with a circuit bearing a current, the method of measuring magnetic mass and magnetic field intensity and the definition of the units of these quantities

The method of production, the properties and the measurement of induced currents of varying frequencies and their application

The discharge of electricity through gases, and the factors upon which their conductivity depends, the properties and uses of anode, cathode and X rays

The methods of investigating and identifying radioactive substances The properties of radioactive radiations and their uses

8 LIGHT

The electron as a source of light waves—nature of the waves—their velocity in free space, water and glass—their reception by the eye Analog.es in sound and wireless signalling

Reflection of waves from plane and spherical mirrors—focal lengths of spherical mirrors—images—optical diagrams

Refraction of waves at a plane surface—index of refraction—the critical angle—methods of finding the index Refraction of waves at a spherical surface—foci and focal lengths—the dioptre—power of a lens—images—optical diagrams

The eye —Diagram of the eye—accommodation—the normal, myopic and hypermetropic eye—the far point—lens necessary to correct myopia and hypermetropia—astigmatism

Optical instruments —The reading lens, compound microscope, telescope, prism binoculars

Colour —Variation of refractive index with colour—deviation of light by a prism—dispersion—kinds of optical glass manufactured—achromatic pair of prisms—direct vision spectroscope—colour blindness

Spectroscopy —Emission spectra of solids, liquids and vapours or gases—spectrum analysis—absorption spectra—range of ether waves from infra red to ultra violet waves and X-ray waves

Polarised light —Polarisation by reflection, by refraction, by natural crystals—the nicol prism—rotation of the plane of polarisation, the polarimeter

Interference -- Interference of waves--colours in thin films

9 PRACTICAL WORK

The Practical Work, consisting of a laboratory course of four hours each week designed to illustrate the principles dealt with in the lectures. will be conducted under the supervision of the Director of the Laboratory

Text-books Mechanics and Hydrostatics "Mechanics for the Upper School", Merchant and Chant (Copp Clark), Heat "Senior Heat", Stewart and Satterly (Univ Tutorial Press), "Light and Sound" Duncan and Starling (MacMillan Co), "Electricity and Magnetism" Hutchinson (Univ Tutorial Press)

OPTIONAL COURSES IN PHYSICS

In accordance with the plan outlined by the faculty optional courses in Physics are offered in years succeeding the first, as follows

SECOND YEAR

Advanced Electricity and Magnetism

PROFESSOR BURTON

This course of 60 hours is designed to follow on the work in electricity of the first year course Special emphasis is laid on conduction through liquids and allied phenomena

THIRD YEAR

Colloidal Solutions and Ionisation and Electrical Conductivity of Gases

I Colloidal Solutions

PROFESSOR BURTON

- A course of thirty hours lectures and demonstrations on the preparation of colloidal solutions and the study of their properties
 - II Ionisation and Electrical Conductivity of Gases Professor Gilchrist A course of thirty hours lectures and demonstrations
 - FOURTH YEAR

Acoustics and Oblics I Acousties

PROFESSOR RUDTON

- A course of thirty hours lectures and demonstrations in advanced acquistics
 - II Obtics
- A course of thirty hours lectures and practical demonstrations on advanced optics

FIETH VEAD

Radiation and Radioactivity

PROFESSOR MCLENNAN A course of sixty hours on radiations and their properties followed by practical work

STYTH VRAD

Radzology

PROFESSOR GUCERIST

A course of sixty hours lecture and laboratory work on Radiology

REGULATIONS - Deposit Fee Each student taking the laboratory course is required to make a deposit of three dollars (\$3 00) before beginning work All supplies, apparatus broken or destroyed and all fines will be charged against this deposit, which must be renewed when exhausted. At the close of the session cash balances will be returned on a day appointed for the purpose

BIOLOGY

Professor of Zoology B A BENSLEY Professor of Histology and Embryology W H PIERSOL. Associate Professor of Biology E M WALKER Assistant Professor in Vertebrate Embryology A F COVENTRY Assistant Professor in Linnobiology W A CLEMENS

Assistant Professor in Experimental Biology and Genetics J W MAC-ARTHUR Lecturer in Comparative Anatomy and Neurology E H CRAIGIE

Lecturer in Mammalian Anatomy W H T BAILLIE Class Assistants H H MACKAY, G C BROWN, F B WILSON, MISS O.

MONRMAN, A E McCulloch Secretarial Assistant Miss H C FORD

FIRST VEAR

Lectures -1 Students of the First Year will attend a course of ninety lectures to be given three times a week during the session. The lectures will serve as an introduction to the biological fields in relation to medicine The topics include (1) the general nature of living organisms and of cell processes. (2) the types of lower organisms of interest to students of Medicine, (3) an introduction to the anatomy and development of the mammalian organ systems, and (4) biological principles as applied to man

Practical Work -2 A course of one hundred and eighty hours, comorising two three-hour periods per week, the materials of which are based as far as possible on Lecture course I The work comprises microscope practice, elementary experimental studies on the nature of cell processes, types of lower organisms, and a selected list of vertebrates, including the elements of mammalian anatomy

SECOND VEAR

1 Option—A course on the principles of evolution, heredity and eugenics in relation to medical and sociological problems

THIRD VEAR

- 1 Option —A course of seventy-five hours laboratory work on embryology, including technique, with special reference to the problems of mammalian embryology
- $2\ \ Optson$ —A course of seventy-five hours laboratory work on advanced histology and cytology, including technique
- 3 Option —A course of lectures and laboratory work on the structure and life history of animal parasites, particularly those which infest man
- 4 Option —A co-operative course of lectures and conferences dealing with current biological literature and problems
- 5 Option —A course of lectures and laboratory work on the structure and development of the vertebrate nervous system

Tevi-books Biology O'Donoghue, Shull, Borradaile, McFarland, Bigelow, Parker

Embryology McMurrich, Manual of Embryology, Bailey and Miller, Prentiss and Arey

Mammalian Anatomy Bensley, Practical Anatomy of the Rabbit

Histology Jordan, Text-book of Histology, Schafer, Text-book of Microscopic Anatomy (Quain's Anatomy, 11th edition, vol II, pt 1), Lee Microtomist's Vade Mecum, 8th ed , Sharp, Introduction to Cytology,

Parasitology Chandler, Animal Parasites and Human Disease

Heredity Morgan, The Physical Basis of Heredity

RELATION OF SCIENCE TO CIVILIZATION

FIRST VEAR

Letiuses —The greater part of the assigned time of 60 hours will be devoted to a course of lectures designed to illustrate the instence which securific thought and achievement have had on the development of modern caviliation. The lectures will be given jointly by several lectures, but the course as a whole will be under the general direction of Professor Huntsman.

EXPRESSION

Instructors E L DANIBER, J F VANEVERY

FIRST YEAR

Tutorial Classes—In this course instruction will be given in the correct use of written and spoken English, and opportunity will be afforded each student to acquire experience in public speaking

In order that the instruction may be as thorough as possible, the class will be divided into several groups, each of which will meet once a week

PHYSIOLOGY (INCLUDING GENERAL PHYSIOLOGY)

Professor of Physiology J J R MACLEOD

Associate Professor of Physiology J M D OLMSTED

Assistant Professor N B TAYLOR

Demonstrators M J WILSON, F N ALLAN

Part-time Fellows J HEPBURN, W P WARNER, H D LOGAN, R S LANG, N A MCCORMICK, E C NOBLE Labrarian MISS M GRANGE

Secretarial Assistant Miss M E Armour.

The following courses of instruction each extending throughout the session are offered

- 1 Systematic lectures, three a week during term
- a General and neuro-muscular physiology
- b Physiology of circulation, respiration, digestion and secretion.
- 6 Metabolism, the functions of the ductless glands and reproduction.
- d, Physiology of the central nervous system and special senses
 Lectures in General Physiology
- 3 Advanced lectures, two a week (optional)
- 4 General laboratory courses (total of 180 hours)
- a. Neuromuscular Physiology (second year)
- b. Circulation, resouration and digestion (second and third years)
- c Nervous system and special senses (third year)
- d Reviews and Conferences
- 5 Laboratory course in General Physiology
- 6 Advanced laboratory courses (optional)
- 7. Research in Physiology
- 8. Journal Club, one hour a week.
- 9 Optional course Laboratory work in selected parts of subject (available to students of the third and subsequent years in the Medical faculty)
- 10 History of Physology A course of lectures supplemented by discussions towards which the students contribute

Every student must attain a certain standard in the laboratory exercises before he will be allowed to proceed to the University examinations in Physiology

Throughout the Session oral and, as may be necessary, written examinations will be held to ascertain the extent of the student's knowledge of Physiology, and the results of these, as well as his general work in the laboratory will be used to determine his position in the University Class Lists In the laboratory courses the students will be required to make good all loss through breakage or otherwise

Tect-books — Manual of Physology, G N Stewart, Physology and Bochemistry in Modern Medicine, J I R Machod, Starling sor Howell's Physologies, Baylus' General Physology, Luciant's Physology (translated by F Welby), Monographs in Physology (edited by B H Starling) Works of Refenses—Other works important for consultation are Marishall's Physology of Reproduction, Schäfer's Endocrine Organs, Text-Book of Physology (edited by E A Schafer), Recent and Further Advances in Physology (edited by Leonard Hill), C S Sherrington, Mammalian Physology

Students are urged to become members of the Students' Medical Library from which they may borrow, for home reading, books and monographs bearing on the subject of Physiology

BIOCHEMISTRY

Professor of Biochemistry Andrew Hunter
Associate Professor of Biochemistry Hardoleh Waszenevs
Associate Professor of Zymology H B Spearman
Demonstrator in Biochemistry Miss J McFarlane
Fellows J A Morrell, G S Eadie, J A Dauphinel,
C M McFarlane

Secretarial Assistant Miss M Delamere

The following are the Courses of Instruction in this department for students of Medicine

THIRD YEAR

Lectures —A course of lectures—three a week—covering in an elementary way the general field of Biochemistry

Laboratory —An introductory laboratory course in Biochemistry, six hours weekly in the Michaelmas, and three in the Easter term

Tutorial —One hour weekly, reviewing and supplementing in the main the work of the laboratory

FOURTH, FIFTH AND SIXTH YEARS

Optional —A laboratory and lecture course, of two to five hours a week, dealing with one or more of the following topics (1) the principles of nutrition, (2) hydrogen ion concentration and its importance in biology, (3) the action and properties of enzymes

Every student must attain a certain standard in the laboratory exercises before he will be allowed to proceed to the University evaminations in Brochemistry Throughout the Session oral and, as may be necessary, written examinations will be held to ascertain the extent of the student's knowledge of Biochemistry and the results of these as well as his general work in the laboratory, will be used to determine his position in the University Class Lists

In the laboratory courses the students will be required to make good all loss through breakage or otherwise

Text-Books and Works of Reference

- (a) Elementary or General —Hammarsten, Text-book of Physiological Chemistry, Abderhalden-Hall, Text-book of Physiological Chemistry, Matthews, Text-book of Physiological Chemistry, Robertson, Principles of Biochemistry, Rockwood's Laboratory Manual of Physiological Chemistry
- (b) Advanced or Special —Monographs on Biochemistry, edited by Plimmer and Hopkinas, Robertson, Physical Chemistry of the Proteins, Taylor, Digestion and Metabolism, Luek, Science of Nutrition, Efforsi, Biochemical Catalystis in Life and Industry, Euler, General Chemistry of the Enzymes, Abderhalden, Biochemisches Handlexikon, Neuberg, Der Harb

Laboratory Handbooks

- (a) Elementary —Plimmer, Practical Organic and Biochemistry, Hawk, Practical Physiological Chemistry, Folin, Laboratory Manual of Biological Chemistry, Haliburton, Essentials of Chemical Physiology, Cole, Practical Physiological Chemistry
- (b) Advanced —Abderhalden, Handbuch der biochemischen Arbeitsmethoden, Ellinger, Analyse des Harns

ANATOMY

Professor and Director of the Anatomical Department J PLAYFAIR

Professor of Histology, Embryology and Anatomy W H PIERSOL
Associate Professor in Anatomy I C WATT

Assistant Professor of Anatomy and Neurology E A Linnel

Demonstrators in Anatomy H A CATES, H G WILLSON

Demonstrators in Anatomy A S LAWSON, E E SHOULDICE, W A COSTAIN, E A MCCULLOCR, H G ARMSTRONG, G J GILLAM, LILLIAN A CRISE, B M KOSTER, W E L SPARKS, A L HUETHER, W B DICKSON

Demonstrators on Histology and Embryology H G Armstrong, H D
Ball, B Guyatt, J M Macdonild, A G McPeldran, H H
Mackay, O C J Withrow

Richardson Fellow W C M Scott Research Assistant Mary I Tom Secretarial Assistant Miss G H Dowsley

REQUIRED COURSES SECOND VEAR

Course 1 Gross Anatomy — During the Second Year each student is obliged to dissect throughly the various regions of the body, following the plan outlined in a "Guide to the Dissection of the Human Body" Demonstrators will be in attendance each day for the purpose of superintending the work and of group instruction, and will hold frequent examinations with the object of testing the student's progress. Certificates of credit in Practical Anatomy will be granted only to those students whose work has been completed to the satisfaction of the instructors in charge.

The Laboratory will be open from 9 am every week-day through the session, with the exception of Saturdays when it will be closed at 12 noon

In connection with the laboratory work lectures will be given by members of the staff, revenwage the vock that has been completed. The object of these lectures will be to supplement the work in the Laboratory by calling attention to the relations and significance of the parts that where been studied and by elucidating with the aid of diagrams and models the anatomy of difficult and important structures.

Course 2 Histology and Embryology —During the Second Year a course of sixty lectures and two hundred hours laboratory work is given on the development of the body and its tissues, and on the nicroscopic anatomy of its organs

THIRD YEAR

Course 3 Neurology — During the Michaelmas Term of the Third Year a course of lectures will be given on the Anatomy of the Central Nervous System

In connection with the above course of lectures the class will be divided into small sections, to each of which a Demonstrator will be assigned, for the purpose of a practical study of the Anatomy of the Brain

Course 4 Topographic Anatomy—During the Easter Term of the Third Year a course of lectures will be given dealing with the anatomy of special regions or organs. This course is intended to be supplemental to Course 1, attention being given to the practical applications of the structure and regional anatomy of the parts considered.

OPTIONAL COURSES

These rourses are designed for those students who may desure a more intensate study of cettam systems or organs than as afforded by required course. They are open to those who have completed the second, or in some cases, the third year of the Medical Course. All the courses listed will not be offered in any one war, but selections will be made from them according to the demand and to the facilities of the Laboratory. The time, required for each course will be the equivalent of two hours per 'ee' throughout the year.

Course 5 General Gross Anatomy—This course is designed to give opportunity for a review of the Gross Anatomy of the Human Body It is based largely on the study of sections and is open to students who have completed the second year of the Medical Course.

Course 6 Embryology—A course of seventy-five hours laboratory work (including technique) with special reference to the problems of mammalian and human embryology Open to students who have completed the stone's variot the Mulrial Course

Course 7 Cytology —A course of seventy-five hours laboratory work on advanced vertebrate histology and cytology, including technique Open to students who have completed the second year of the Medical Course.

Course S Anatomy of the Joints—A study of the anatomy and actions of the joints, with especial reference to the anatomy of dislocations Open to students who have completed the second year of the Medical Course.

Course 9 Analomy of the Dagestine System —This course will include an intensive study of the development, inimute structure and gross anatomy of the organs of the digestive system. The complete course will extend throughout two avers, but either portion of it may be elected. Open a students who have completed the excend wear of the medical course Course 10 Anatomy of the Gento-Uranary Organs —An intensive study of the development, minute structure and gross anatomy of the Uranary and Gental organs Open to those who have completed the second year of the Medical Course

Course 11 The Anatomy of the Sense Organs—Intended especially for those who intend to specialize in Ophthalmology and Otto-lary agology Open to students who have completed the thud year of the Medical Course

Course 12 Anatomy of the Lymphatic System—A study of the development, structure and distribution of the Lymphatic organs and with special attention to their medical and surgical significance. Open to students who have completed the fourth year of the Medical Course

Course 13 Research Course —Opportunities will be afforded properly qualified students for carrying on investigation in anatomical problems Arrangements for this Course must be made with the Professor of Anatomy

Teal-book —Persol, Gray, Morris, Cunningham's Text-book, Guide to the Dassection of the Human Body for the use of Students in the Haatomical Laboratory of the University of Toronto, Jordan, Text-book of Hatology, Piers, Normal Hatology, Bailey, Text-book of Hatology, McMurrch's Development of the Human Body, Bailey and Miller, Text-book of Embryology, Prentiss and Arey, Text-book of Embryology.

Reference Tect-bookt — Spalteholz, Hand-Atlas of Human Anatomy, Toldr's Atlas of Human Anatomy, Sobotar's Altas and Text-bookt of Human Anatomy, Sobotar's Altas and Text-book of Human Anatomy, Sobotar's Altas and Text-book of Human Anatomy, Barker's The Nervous System, Johnston, Nervous System of Vertchrates, Villiger, Brain and Spanal Cord, Herrick, Introduction to Neurology, Ranson, Anatomy of the Nervous System, Vin Bardelebar's Handbuch der Anatomie, Rawlings, Landmarks, Treves, Applied Anatomy, Davis, Applied Anatomy, Bessley and Johnston, Surgeal Anatomy, Wittnail, Anatomy of the Human Orbit, Schaffer, Anatomy of the Noes, Schaffer, Microscopic Anatomy (in Quanis Anatomy, 10 Hedition, Vol 11, Part 1), Keibel and Mall, Human Embryology, Lee, Microtomiss's Vade meeum, 8th deuton

PHARMACY AND PHARMACOLOGY. MATERIA MEDICA

Professor V E HENDERSON

Demonstrators W G MACKERSIE, L J BONHAM

Demonstrator in Pharmacy Miss J Deas

Class Assistants on Pharmacy J A MicDonald, J C Hallamore, K Mulpoon

Class Assistants in Pharmacology F W W Hipwell, N C Sharpe Secretarial Assistant Miss D Manning

THIRD VEAR

Two courses of laboratory work accompanied by lectures and laboratory talks are given

Practical Work—LakonAroev Course I Experimental pharmacology In this course the student obtains an opportunity to been familiar with representatives of the drug-stuffs composing the various pharmacological groups The chief object of the course is to get the student into the shalt of accurate observation of the effects produced by drugs and to be able to describe them maccurate pharmacological language. In consequence a greate deal of attention is given to the note books kept by each student. The course is accompanied by many mammalian demonstrations. The transpar of all demonstrations are analyzed by each student.

LABORATORY COURSE II Practical Pharmacy This course is very brief, consusting only of a few hours work on the chemical and physical incompatibles and in dispensing several mutrices, pills and ontiments, in order that the student may obtain such insight into dispensing as is necessary to enable him to write prescriptions intelligently

Total of these two courses, 90 hours

Arrangements have also been made with the Toronto General Hospital, the Hospital for Sick Children and the Western Hospital, by which the students of this year will be drafted in turn to act as Assistants in the Hospital Dispensaries for a period of a week.

Lectures —A course of lectures on general pharmacology (35 m all)
This course is designed to supplement and extend the knowledge gained in the laboratory and from the prescribed text-book

Prescription Writing—Each student is expected to hand in answers to the problems in prescription writing announced each week. These are corrected and returned, and opportunity is given for the discussion of any difficulties, with the staff during laboratory hours

Informal talks are also given from time to time as needed

Text-books — Pharmacy and Materia Medica, Henderson, Pharmacology, Dixon, Applied Pharmacology, A J Clark

Reference Text-books—Pharmacology, Cushny, Sollmann, Bastedo, Greene, Prescription Writing—Bennett, Medical and Pharmaceutical Latin, Eggleston, Prescription Writing, Materia Medica and Prescription Writing, Bethea

TOXICOLOGY

Professor of Pharmacology V E HENDERSON

A course of ten lectures is given dealing with the pathology, phormacology, symptomology and treatment of the more important poisons which are commonly the cause of either forensic or industrial cases of poisoning

MEDICINE

Emeritus Professor of Medicine Alexander McPhedran Professor of Medicine Duncan Graham

Associate Professor of Medicine WILLIAM GOLDIE
Assistant Professors of Medicine F A CLARROON, G HOWLAND (in charge
of Neurology), I OULE, D KYNC SMITH (in charge of Department)

of Neurology), J Oille, D King Smith (in charge of Dermatology)

Associates in Medicine J H Elliott, J D Loudon, H C Parsons,
G S Strathy, G S Young

Senso Demonstrators in Medicase R G Abridur, G F Boyer, W R F Campellia, A H W Caudpello, E E Cleaver, H K Detweller, a A A Firculer, N B Gwyn, B Ilannar, H S Huycheson, R A Jamisson, A J Macernie, A G McPelbran, J H McPelddan, W F McPheddan, L Murray, W E Qoden, T J Page, F W Rolfe, Cara Sheved, I. E. I Troop

Junior Demonstrators in Medicine G Bates, E A Broughton, H A Dixon, J Hepburn, W R Hodgl, F S Park Fellow W P Warner

Clinical Microscopy | Sentor Demonstrator G W LOUGHDED | Junior Demonstrator E S JEFFREY Technical Assistants C G Dix, Miss M Hanna Secretarial Assistant Miss S H Cultina

FOURTH YEAR

Lectures —Two lectures are given weekly during the session on methods of physical examination, the explanation and interpretation of physical signs and history taking. The course is concluded by an introduction to the study of Medicine, dealing with the physiological aspects of disease. One lecture is eview neekly on Annield Anatomy.

Clinics —The class is divided into small groups, each of which is in charge of a clinician who instructs a different group each trimester. Practical instruction is given four hours a week in methods of physical examination and history taking in the wards of the hospital

Clinical Microscopy —One lecture is given weekly throughout the session on Clinical Microscopy. Once a weekl, during the session, each group of students receives practical instruction in the laboratory in blood counting and the microscopical examination of blood, urine, faeces, stomach contents, sputum, cerebro-spinal fluid, transudates and evudates

Instruction in bed-side clinics and in clinical microscopy follows as closely as possible the work discussed in the lectures of the previous week

Instruments —Students beginning clinical work are strongly advised to supply themselves with the following instruments Setthoscope, Tape Measure, Dermograph, Haemocytometer (Burker-Neubauer), Haemocytometer (Burker-Neubauer), Haemocytometer, Head-mirror, Ophthalmoscope, Larvingoscope, Microscope with Condenser and Oil Immersion Lens Special arrangements have been made for obtaining these instruments

Special arrangements have been made for obtaining the (See Page 16)

Text-books —Physical Diagnosis, Cabot, Rose, Clinical Methods, Hutchison and Rainy, Clinical Laboratory Diagnosis, Morris, Emicrson, Words, The E amination of the Patient, Foster, Medicine, Osler, Stevens, Taylor, Pathological Physiology, Hewlett

FIFTH YEAR

Lectures —A weekly lecture is given on the different types of disease One lecture is given weekly on Applied Anatomy

Cluster—The class is divided into small groups for clinical instruction in the wards of the hospital Three bed-sed clinics on different types of discase are given weekly throughout the session. The students devote three hours weekly to taking histories, evanining patients and carrying out the clinical inboratory investigation of their cases under the direction of the Staff

A weekly clinic is held in the hospital amphitheatre, at which selected cases illustrating different types of disease are presented

Groups consisting of one-sixth of the Year attend, twice a week for a period of ten weeks, clinical demonstrations on Infectious Diseases at the City Isolation Hospital and the Hospital for Sick Children

During the session each student is required to piepare at least three complete records of medical cases. These records must be certified as satisfactory by the clinician in charge of the clinic of which the student is a member.

SIXTH VRAP

In the Final Year the class is divided into three groups—Medicine, Surgery and Specialties For a period of ten weeks each group devotes its whole time to Clinical Medicine

Under the supervision of the Staff each student takes charge of a certain number of caves in the wards of the hospital. He is required to take a clinical history, make a complete physical examination and a routine laboratory examination of each case under his charge, and follow its progress and traitment shile in hospital.

The class in Chincal Medicine is divided into smaller groups for bedside instruction and work in the Medical Out Patient Department. Four bed-side clinics are given seekly at which students report the examination of the cases under their clearge. This is followed by a clinic on the diagnosis, progriss and traitment of selected cases. Each clinic group attends the Medical Out Patient Department twice a week. Here the student is responsible for taking a clinical history and making a physical e-ammation of all new cases. Upon the completion of this e-ammation a member of the Staff discusses with him the diagnosis and treatment of the case.

Through the Social Service Department of the Hospital the Staff obtains information as to the social, hygienic and economic conditions of the patients' homes, which is of the greatest value in the diagnosis and treatment of individual cases. With their assistance homes are visited, anormal conditions remeded and patients discharged from hospital are encouraged to return for periodic examinations. In this manner the student is afforded an opportunity of observing the results of treatment and the effects of social, hygienic and economic factors in the treatment of thesawe.

Two theatre clinics are given weekly to all students of the Final Year at which cases are presented and the diagnosis, prognosis, prevention and treatment of various diseases discussed

Special Lectures and Clinics — The general course of clinical instruction in Tuberculosis, Venereal Disease and Diseases of the Skin is supplemented by special lectures and clinics

Tuberulosis —Ten lectures are given on the diagnosis, prognosis, prevention and treatment of tuberulosis. Each student attends ame Out Patient clinics on tuberulosis—su, at the Toronto General Hospital and three at the Hospital for Sak Children. Both in lectures and clinics particular attriction is past to the early diagnosis of pulmonary tuberulosis, the examination of contacts, the methods for the prevention of the disease and its treatment in the home or sanitarium.

Diseases of the Skin —In addition to six lectures on diseases of the skin each group in the Final Year attends fifteen Out Patient clinics on adults and five on children

Venered Dissesse—Three lectures are given on the prevention and general principles of treatment of venereal disease, and the functions of a Venereal Clinic Each clinic group attends in rotation five special Out Patient clinics on syphilis and takes part in the examination and treatment of cases.

Clinical Pathological Conference—A weekly clinical pathological conference is held, at which students are required to report the results of their clinical examination of fatal cases under their care. This is followed by a demonstration of the autopsy specimens and a discussion of the clinical and pathological findings.

FIRTH AND SIXTH YEARS

Test-books —Diseases of the Chest, Norms and Landis, Principles and Treatment of Heart Affections, Mackenzie, Clinical Disorders of the Heart-beat, Lewis, The Soldier's Heart and the Effort Syndrome, Lewis,

Diseases of the Digestive Canal, Colinheim, Chincal Evanimation of the Nervous System, Krahn, Diseases of the Nervous System, Purves-Stewart, Diabetes Mellits, Josin, Diseases of the Skin, Sequera, Pulmonary Tuberculosis, Fishberg, Diagnostics and Treatment of Tropical Diseases, Skitt. Food for the Skick. Strougs and Perry

Reference Books — A System of Medicine (II volumes). Allburt and Rolleston, Modern Medicine (6 volumes). Oater and McCrae, Monographic Medicine (6 volumes), Barker, Oxford Loose Leaf Medicine (6 volumes). Therail Medicine (7 volumes). Therail Medicine (6 volumes). Therail Medicine (6 volumes). Therail Medicine (6 volumes). Therail Medicine (6 volumes). Wilson, Diseases of the Heart, Mackennze, Diseases of the Forthy, Mackennze, Diseases of the Arteus and Angina Pettors (2 volumes), Allburt, Chineal Medicine, Barker, The Form and Functions of the Central Nervous System, Tilney and Riley, Diseases of the Nervous System, Jefficand White, Diseases of the Skin, Morris, Macleod, Stelwagon and Gaskill, Hartzell, Schamberg, Pussey, Studies in Deficiency Disease, McCarrison, Endocranology and Metabolism (6 volumes), Barker, Diseases of the Digestive System (2 volumes), Bassler

PAEDIATRICS

Associate Professor of Medicine, in Charge of Paediatrics Alan Brown
Associate in Paediatrics A W Canfield

Sensor Demonstrators in Paediatrics A P Hart, E A Morgan, G R Pirie, G E Smith

Juntor Demonstrators in Paediatrics Gladys Boyd, Roy Simpson, F F
TISDALL

Special Research Fellow in Paediatrics G A Davis
Chemist to the Sub-Department of Paediatrics Anobula M Courtney
Assistant Chemist Ida F MacLachlan
Secretarial Assistant Kanturen I. Head

FIFTH YEAR

Students of the Fifth Year devote most of their time to learning the essential principles of Paedatines, and the difference in the manifestation of disease between adult and child. A senes of thirty-two theatre climics is given, illustrated by plates, lantern slides, morthd specimens and by the presentation of patients when the nature of the subject under discussion makes it desirable. Among the subjects included in these theatre climics are (1) the physiology and pathology of digestion in infants, (2) percentage and calone method of feeding, (3) classification of digestive disturbances, (4) deficiency diseases of childhood, (6) congenital and acquired cardiac disease, (8) tuberculous, (7) syphilis, (8) nephrits, (9) active conditions arising in the newborn infant, (10) child welfare,

SIXTH YEAR

Students of the Svtth Year devote their whole time to claims—ba-lind and Our Patient. In addition to this each student is required to spend seven hours in one of the child welfare claims conducted by the Department of Child Hygene. In these claims he is given an idea of the normal feeding and growth of infants and children. During the Sixth Year Course three hours? practiced work is required of each student in the milk modified in the control of the co

Fellowships —The Sub-Department of Paediatrics is prepared to offer to graduate students two full-time Fellowships in Paediatrics —These Fellowships include a certain amount of clinical work as well as laboratory investigation, thus serving to keep the research worker in touch with clinical problems and further his interest in Clinical Paediatrics

Text-books — (1) Diseases of Infancy and Childhood, Holt. (2) Infant Feeding, Grulee, (3) Simplified Infant Feeding, Dennet, (4) The Normal Child—its Care and Feeding, Alan Brown

Reference Books — (1) Diseases of Children, Garrod, Batten and Thursfield, (2) Common Disorders and Diseases of Childhood, Still, (3) Management of the Suck Infant, Porter and Carter, (4) System of Paediatrics (3 volumes), Dunn, (6) Diseases of Nutrition and Infant Feeding, Morse and Talbot. 60 Practical Infant Feeding, Hill

THERAPEUTICS

Professor of Therapeutics R D RUDOLF

Lecturer in Anaesthesia, S Johnston
Senior Demonstrators in Therabeutics C E C Cole, W V Watson

Fellows F M R BULMER, W E BROWN

Junsor Demonstrators in Anaesthesia T R Hanley, W H Carveth,

C H ROBSON, J J HURLEY, H J SHIELDS, W R PARKS

Therapeutics is taught in the two final years, and is made as practical as possible

FIRTH VEAD

Lectures —In the Fifth Year a course of lectures is given in which the general principles of the subject are considered in a systematic way, emphasis being laid upon the fact that Therapeutics includes far more than the employment of drugs. The whole matter is considered more from the standpoint of disease than from that of drugs and other remedies. Diet, specific therapy, hydrotherapy, the vanous forms of physio-therapy, and climate are also dealt with Once a week one-third of the class are given a practical demonstration at the hospital of methods of therapy, patients being freely need to illustrate the noits.

SIXTH VEAR

Clinical Work—In the final year the students are taken in groups at the General Hospital and the different methods of dealing with diseased conditions are demonstrated and discussed, generally upon actual patients. Here also prescription writing is practised. These meetings are quite informal and are conducted five times a week in the medical theatte at the bospital and in the wards, the Socratic method being largely used.

Besides having lectures in the Fifth Year and demonstrations in the Final Year on Anaesthesia, each student is required to give six anaesthetics before graduating

Tevi-books —Hare's Practical Therapeutics, Rudolf's Medical Treatment, Dudley W Buxton, Anaesthetics, J W Gwathmey, Anaesthesia, J Blumfield, A Practical Handbook of Anaesthesia, H Bellamy Gardner, Manual of Surgical Anaesthesia

Reference Text-books—Hutchnson & Collier's Index of Treatment, Fredereawld and Rubrab, Due in Health and Dosease, Wood, Therspeutics, its principles and practice, Potter, Ortner's Treatment of Internal Diseases, Cushny, Pharmacology and Therspeutics, Shoemaker, Materia Medica and Therspeutics, Hart, System of Therspeutics, Forchisheme's Therspeusis of Inturnal Diseases, Da Costa, Medical Treatment, Golbone's Principles of Therspeutics, Rendle Short's Prognosis and Edersuits of Treatment, Sayou, Analytic Cyclopaedia of Practical Medicine, Oldref Index of Therspeutics Gongaryer, Stevens' Therspeutics

SURGERY AND CLINICAL SURGERY

Professor of Surgery CLABENCE I STARD

Professors of Clinical Surgery A PRIMROSE, H A BRUCE, F N G STARR
Associate Professor of Clinical Surgery P W H McKlown

Assistant Professors of Chinical Surgery W E Gallie, Warner W Jones,
A H Preprint

Associates in Surgery and Clinical Surgery C B Shuttleworth, G Silverthorn, E S Ryerson, Wallace Scott, N S Shenstone, G E Wilson

Demonstrators in Clinical Surgery A B Wright, M H V Cameron,

R E GABY, D E ROBERTSON, OLIVER MABEE, ROBIN PEARSE, R R GRAHM, H E CLUTTERBUCK C B PARKER R I HARRIS

Junior Demonstrators C H Hair, G C McIntyre, T A Robinson,

R H THOMAS, A B LEMESURIER, W A COSTAIN, J H WOOD, R A McComb, J C McClelland, E E Shouldice, H W WOOREY,

T A J DUFF, R M JANES, J W ROSS, J L McDonald Fellow in Surgery K G McKenzie

Secretarial Assistant Miss R Ross

FOURTH YEAR SURGERY

 $1\ \ \mbox{\it Lectures}$ —A course consisting of an introduction to the general principles of surgery

2 Chmcal Work

(a) Clinical study in the Out-patient Department or the Ward Each chitical class will be taught the surgical condution Glowing, with History Taking, Supgeal Landmarks, and the mithods of making physical examinations as applied to them. Inflammation, Supportation and Alucess, Surgical conditions of the skin and subertaneous tissues. Burstis, 'Licosynovitis, Surgical sifictions of the Lymph Clands, Wounds, Hemorrhage and Thromboss, Speas, infection and infectious diseases, Ulcrattion, Gangrene, the general features of Fractures, Dislocations and Sprains, Herma, Bandaging

These conditions shall constitute the subjects of examination

(b) A course of surgeally applied clinical anatomy. Part of this course will consist of a series of clinical lectures in the thatier of the Toronto General Hospital. Regional anatomy will be studed and illustrated by patients suffering from surgical conditions in different parts of the body. The anatomy of the different regions will be demonstrated by diagrams upon the blackboard, by frozen sections, and by the use of the lantern There will be also a series of demonstrations of the anatomy of surgical conditions, including fractures, sparns, dislocations, injuries and infections of the soft structures, etc., carried on with small groups in the Anatomical Building in a unit set apart for the Surgical Department.

- (c) A series of demonstrations in surgical pathology. These demonstrations will be conducted conjointly by the clinicians and the pathologist and will consist of elementary demonstrations of the gross pathology, the histology, the bacteriology and the analyses of the blood, urine, etc., including not only microscopic findings, but the pathological cliensisty necessary for complete clinical investigation. Individual types will thus be presented for the purpose of illustrating the steps necessary in the clinical study of surgical cases as indicated in the gross pathology together with the microscopic and chemical findings.
- (d) Demonstrations to small groups of students will be conducted in minor surgery and bandaging. In this series instruction will be given in names and uses of various instruments and equipment used in surgery Material and methods of preparation and use of various dressings, bandages, and splints will be demonstrated.

FIFTH YEAR SURGERY

- 1 Lectures—Thirty lectures are given throughout the session on some of the general principles of surgery Short courses are included on the special surgery of certain regions of the body, e.g., the abdomen, the head and neck, the extremities, etc., the courses varying from year to ver.
- 2 Clinical Work -(a) Clinical work in the wards will be conducted according to the time-table provided. During the year the student is taught to make a complete examination of surgical cases in order that he may be able to arrive at a diagnosis and to learn the appropriate scientific treatment The following conditions will be studied and will be, as far as possible, the subjects of the clinics (1) Injuries and diseases of the bones and joints, (2) the surgery of the neck, acute and chronic inflammation rimary and secondary new growths, diseases of the thyroid gland, (3) surgery of the thorax, empyema, tumours of the breast, (4) surgery of the abdomen, appendicitis, cholecystitis, ulcer of the stomach and duodenum, cancer of the stomach, general peritonitis, tuberculous peritonitis, gall stones, acute and chronic intestinal obstruction, abdominal injuries, haemorrhoids, fistula in ano, anal fissure, (5) the surgery of the kidney, stone, pyonephrosis, surgical conditions of the bladder and use of the cystoscope, (6) the surgery of the scrotum and testes, acute and chronic inflammation, tumours, hydrocele, varicocele, (7) the surgery of mouth, ulcers, tumours of the lip, tongue and gum, tumours of the upper and lower saw. (8) diseases and injuries of blood and lymph-vascular systems, (9) surgery of the extremities including fractures, amputations, dislocations, injuries to joints, and injuries to nerves, (10) injuries and diseases of the head and spine
- A special course in orthopaedic surgery will be given in the $\ensuremath{\mathsf{Hospital}}$ for Sick Children

- (b) Each student will be required to take three complete surgical histories during the year Each history is to be written in accordance with the standard of the American College of Surgeons. This work will be directed by the resident or senior house-surgeon. One history is to be lift at the secretary's office at the end of each trumseter. Each such history is to be annotated and initialed by the clinician, and after revision by the student to be examined by the Professor of Surgeria.
 - (c) A course of surgically applied clinical anatomy
- This course will be conducted in the clinical theatre of the Toronto General Hospital Regional anatomy will be studied on and illustrated by patients suffering from surgical conditions in different parts of the body The anatomy of the different regions will be demonstrated by diagrams upon the blackboard, by frozen sections and by the use of the lantern
 - (d) A series of demonstrations in surgical pathology
- These demonstrations will be conducted conjointly by the clinicians and the representatives of the Department of Pathology and will consider a design of demonstrations of the gross pathology, the histology, the bacterology and the analyses of the blood, urme, etc. including not only microsoft findings, but the pathological chemistry necessary for complete clinical influences are not provided in the pathological chemistry necessary for complete clinical control and the pathological chemistry necessary for complete clinical study, and the appropriate treatment, based upon the gross pathology, together with the microsoft and clinical study, and the appropriate treatment, based upon the gross pathology, together with the microsoft and chemistrations.

STATE VEAR SURGERY

The work of the Sixth Year in Surgery is entirely clinical, including one weekly mid-day clinical lecture

- Clinical Work
- (a) Two clinics will be given in each week to the students of this year. The clinical classes in each Hospital will consist of the students assigned to the surgical services in the various Hospitals.
- (b) The students in this year are assigned at the Secretary's Office to the surgical services at the Toronto General, Sk Wichael's, Western and Hospital for Sick Children, the number of men to each service depending on the number of students in the class. These men will be required to act as clinical clerks and to perform the following duties, the students alternating as arranged in the various divisions.
- 1 To act as assistants to the House Surgeon and to be prepared to carry out his instructions at all times
- 2 To take the history of each patient allotted to him within twenty-four hours of his admission to the wards. To record the physical examination and to do and record the necessary laboratory work.
- 3 To attend all the operations performed on his service, and to be prepared to act as second assistant
- 4 To do whatever dressings are detailed to him by the House Surgeon

- 5 In the event of an autopsy on any patient who has been under hi charge, to assist and make the necessary records
 - 6 To work in the Out-patient Department and Emergency Department
- 7. To be required to attend the clause given to the Fourth and Fifty Yeas on his service, and to be prepered to give to the clinician a detailed account of the cases being presented, and, if necessary, to act as demon strator under the direction of the clinician. Further, to be required it provide and prepare the material for each clinic to the Fourth and Fifty Years.
- 8 During his term of service he shall be prepared when directed to do so, to assist in giving and to give anaesthetics to the patients on his service under the supervision of the anaesthetist
- (c) Once a week a conference will be held in the Pathological Department, when the Professor of Pathology and the members of the climica teaching staff will meet to discuss the pathological material which has beer sent from the climic to the Pathological Department during the preceding week. These conferences between the Pathological and the climician will form a very important part of the tuition of the student in Surgery in the Sytch Year.

Students in the Sixth Year will receive special instruction in physiotherapy. The value of massage, gymnastics, electricity, hydropathy, etc, in the treatment of surgical cases will be demonstrated.

Tet-books—Principles of Surgery, Rose and Carless, Haubold, Gasi and Wilson, Da Costa, Minor Surgery, Foote, Process of Diagnosis Ryerson, Surgicial Diagnosis, Gould, de Quervain (translation), A Synopsis of Surgery, Ernest W Hey Groves, Surgical Materials and Their Uses, Maclenan

Reference Techbook: —Principles of Surgery, Choyce, Thomson and Miles, Oxford Loose Leaf Surgery, Surgical Treatment, Cheyne and Burghard, Binnie, Kocher, Alexii Thomson, Minor Surgery, Vaughan and Burnham, Orthopaedic Surgery, Lovett and Jones, Jones, Mintman, Fractures and Dislocations, Sondder, Surgery of the Cheet, Paget, Lungs, Fowler and Godlee, Surgery of the Brain, Rawling, Operature Surgery, Horsley, Rowlands and Turner, After-Treatment of Surgical Patients, Burtlett, On the Solicen, Moryahad.

OBSTETRICS AND GYNAECOLOGY

Professor of Obstetrics and Gynaecology W B HENDRY
Associate Professor of Obstetrics K C McIlwraith
Associate Professor of Gynaecology F W Myllow

Assistant Professors of Obstetrics and Gynaecology F A CLELAND, R W Wesley

Associates in Obstetrics and Gynaecology W A SCOTT, J G GALLIE, N D FRAWLEY

Associate in Obstetrics J A KINNEAR
Senior Demonstrators in Obstetrics and Gynaccology W W LAILEY, W G

COSBIE

Junior Demonstrators in Obstetrics and Gynaecology H B VANWYCK,
D M Low

Resident Fellow in Obstetrics and Gynaecology W A DAFOE

Secretarial Assistant Miss M F. Kinn

FIRTH VELD

Lectures—Obstetrics—A course of lectures illustrated by diagrams, lantern sides and models will be given Stated generally, the course consists of two perts. The first part deals with the anatomy and physiology of the femiliae organs of reproduction, the nantomy, physiology and management of normal pregnancy, labour and the puerperum, and the care of the unfant. The second part is concerned with abnormal conditions arising during pregnancy, labour, and the puerperum, and with maliables of the infant.

Practical demonstrations on anatomy, the mechanism of labour, the use of obstetrical instruments, etc, will be given to small sections of students

Gynaecology —A course of lectures illustrated by pathological specimens, diagrams and lantern slides will be given The lesions of each organ are considered in detail and the methods of gynaecological diagnosis and treatment indicated

Clinical Work—Obstetrics—The student attends clinics at the Toronto General Hospital. At these clinics practical instruction is given in the examination of patients, the diagnoss of pregnancy, the management of labour and the overcerum and the care of the infant.

Gynaccology — Clinical instruction is given at the Toronto General Hospital, in the method of case taking, the examination of patients, the use of instruments, and in the conduct of operations

Pathological Demonstrations —The naked eye and microscopic pathology of the common obstetrical and gynaecological lesions will be demonstrated in the missum

SIXTH YEAR

Obsterva:—The student attends the Obsterval Hospital for a period of five weeks during which time he is given an opportunity to see all the work of the hospital, and to assist in the management and treatment of cases. He may be required to attend patients in their own homes and to perform other duties in connection with the Out-Patient Service Clinical lectures are given once a week on interesting and abnormal cases.

Gymecology —Clinical instruction in the examination and diagnosis of gynaecological cases is given to small sections of students. Each student is required to act as clinical derk to the cases assigned him, to be present at any operations required, and to follow the after-treatment: Operations will be performed on stated days and at these the members of the clinic may be present.

Pathological Demonstrations —A series of demonstrations in continuity with those held during the fourth year will be given in the museum

Text-books ---

Obstetrics -Eden, Whitridge Williams, Polak, De Lee

Gynaecology —Barbour & Watson, Graves, Crossen, Eden & Lockyer, Montgomery, Polak, Anspach

Reference Text-books -

Obstetrics —Bumm, Winckel, Munro Kerr, Operative Obstetrics, Davis, Operative Obstetrics, Lea, Puerperal Infection, Ballantyne, Antenatal Pathology

Gynaecology — Kelly, Operative Gynaecology, Berkeley & Bonney, Gynaecological Surgery, Winter & Ruge, Gynaecological Pathology, translated by Clark, Cullen, Cancer of the Uterus

OPHTHALMOLOGY

Professor J M MACCALLUM

Assistant Professors D N MacLennan, W H Lowry
Sensor Demonstrators M Lyon, W W WRIGHT, F A AYLESWORTH,
C E HILL

Secretarial Assistant Miss M Kingsmill.

FIFTH YEAR

Instruction will be given by quizzes, recitations or lectures. The class will be divided unto small sections. In each section the applied anatomy of the eye, orbit and surrounding structures will be considered, followed by instruction in the use of the ophthalmoscope, retinoscope and other instruments of diagnoses. The methods of extrenal examination of the eye, the use of the test type, test lesses and the principles of refraction will be thoroughly dealt with

SIXTH YEAR

Instruction will be wholly clinical and practical, and will include Ophthalmocopy and its relations to general medicine, advanced refraction 5 of student will be required to determine the refraction of patients in the Out-Patient Clinic and must, for this purpose, supply himself will no ophthalmoscope and a retinoscope. When possible the students will be shown the more usual operations on the eye

There will be 4 short course of didactic lectures

Ophthalmology -

Text-books — J Edward Jackson, May, Mayou, Nattleship, Parker, Parsons, Swanzy, Veascy, Hepbourne, Sym, Marshall

Works of Reference —de Schweinitz, Weeks, Fuchs, Posey & Wright, Theobald, Ball

OTO-LARYNGOLOGY Professor Perry G Goldswith

Associale Professor Gilbert Royce
Associales Geo M Biggs, Eddund Boyd
Senior Demonstrators J C Californ, A A Campbell
Juntor Demonstrators Jane S Manson, D E Staunton Wishart,
H H Birnham

Secretarial Assistant Miss O V Ross

The course of instruction in oto-laryagelogy is carried on in the Torontic Ceneral Hospital, where the facilities placed at the disposal of the students are unusually complete. There is an indoor service of twenty beds, and in the outdoor, in addition to the large clinic, where the final year student receive instruction, there is a room set aside for the fifth year classes, with each tubbled for examination purposes.

This course is carried on during both the fifth and sixth years of the curriculum

Clinics for the final year students are given one day a week at the Hospital for Sick Children There is an in-door service which varies from ten to fifteen beds

FIFTH YEAR

- In the fifth year the students will receive instruction in
- (1) The normal anatomy of the ear, nose and throat
- (2) The methods of using the head mirror and the various instruments required in examining the car, nose and throat
 - (3) The ordinary tests for hearing
- (4) The recognition of the ear, nose and throat, in their normal conditions, as exemplified by clinical material
 - At the close of the session a clinical examination will be held

SIXTH YEAR

In the sixth year the students will be divided into small groups for the purpose of studying the commoner conditions met with in general practice, and as much clinical material as possible will be utilized for the purposes of personal observation

- A series of lectures will be delivered upon the various diseases of the ear,
- nose and throat, ordinarily met with by the general practitioner
 In the final, syth year, two chinical examinations will be held. One
 at the completion of the trunsster and the other at the end of the session

Tevi-books —Oto-Rhino-Laryngology, Georges Laurens, Ear, Nose and Throat, Dan MacKenzic, Diseases of Nose, Throat and Ear, A Logan Turner

For Reference —Diseases of Nose and Throat, Sir St Clair Thomson, The Nose and Throat and their Treatment, Parker & Colledge, Diseases of Nose and Throat, Herbert Tilley, Diseases of the Ear, Albert Gray, Diseases of the Ear, Richard Lake

PSYCHIATRY

Professor of Psychaetry
Associate of Psychaetry Harvey Clare
Associate Professor in Psychology J W Bridges
Assistant Professor in Psychology E A Boyt
Demonstrators Eric K Clarke, F S Vrodman, D R Fletcher
Fourth Yrar

Lectures —A series of didactic lectures is given, outlining some of the more important psychoses

A special course on psychiatry, in conjunction with psychology, is outlined among the options
This course is of great use to those who

wish to follow psychiatric work, as it gives sixty hours a year for five years and covers the whole range of modern psychiatry For particulars vide literature on optional course.

FIFTH YEAR

Clinical Work—A clinical course will be given. The student will be afforded opportunity to obtain a practical knowledge of psychiatry, and to study the laboratory and clinical methods employed in the diagnosis and treatment of various forms of insanity.

Text-books —Clinical Psychiatry, Diefendorf, Psychiatrie Neurological Examination Methods, by Wimner Hosholt, Mental Diseases, by Walter Von Gulick, Dementia Praecov and Paraphrenia, by Emil Kraepelin, Outlines of Abnormal Psychology, Bridges, Mental Disorders, by Barnes

PATHOLOGY AND BACTERIOLOGY

Professor of Pathology and Bacteriology and Curator of the Museum and

Assistant Professor of Bacteriology H B MAITLAND
Lecturer in Pathology and Assistant Curator of the Museum W L Robinson
Lecturer in Pathology Win Mainfer

Lecturer in Bacteriology G H EAGLES
Assistant in the Pathological Museum R C Montgomrey

Demonstrators in Pathology G F LAUGHLIN, G R PHILP, A MACKAY, B M KOSTER, N H RUSSELL Demonstrators in Bacteriology C W HARRIS, H E VALE, H L SKINNER,

MISS C J FRASER
Fellows in Pathology G C CAMERON, J E BATES, F I LEWIS

Artist Miss Violet Gillett Secretarial Assistant Miss G BOYD

The course of instruction in Bacteriology is given during the second half of the 3rd year. This course is adapted to the needs of the student of Medicine, and attempts to give practical instruction concerning the important infections which are met with in general practice. The bacteria are studded not only from the standpoint of their biological characters, but also in relation to the processes which are induced by them in human

In the Fourth Year tha course a followed by instruction in Pathology, the first half of the year being devoted to a study of the Prunciples of Pathology, while during the second half of this year the time is devoted to Special Pathology. It is attempted to make the course as comprehensive as possible using every means to allow the student to understand the Pathological lesions of tissues and the consequences. During the course in practical Pathological Histology the specimens from the Museum, illustrating the subject for study, are brought before the student with special demonstrations.

During the Fifth Year the student will spend all available time at autopsies, and he is obliged to give attendance at a minimum of twelve cases

During the Sixth Year weekly lectures are held, in which the Pathological changes observed in certain of the more common diseases are discussed with the student and illustrative Pathological case histories are analyzed to bring out the reasons, based on Pathological grounds, of certain Chinical manifestations.

THIRD YEAR

During the second semester the student receives a course of lectures and practical laboratory exercises in Bacteriology The lectures serve as a general guide to indicate the importance of certain bacteria and their actions in the tissues The laboratory exercises are devised to permit the student to obtain a proper knowledge of the Pathogenic micro-orgaaisms, and the means of isolation and identification of the most important bacteria The practical course is introduced by a limited instruction on media-making and the technique of staining of bacteria and sterilization Subsequently the student does not prepare his own media, but all of the time consuming technical processes are attended to by the laboratory staff During the last few weeks in this course the student is given instruction on the principles of immunity, and upon the most important laboratory methods in Serology which are used for the diagnosis of disease During the entire course, demonstrations are offered upon the intricate problems in Bacteriology for which time is not available to the student for personal investigation

FOURTH YRAR

The course in General Pathology occupies the first half of the Fourth Year, and consists of a series of lectures and a course of practical exercises The lectures cover the subjects of General Principles, Anomalies, Degenerations, Necrosis, Pigmentations, Inflammation and Tumois. In the practical exercises the attempt is made to illustrate all points discussed during the lectures, by microscopic preparations and by examples of similar lesions obtained from our Museum In all instances the macroscopic is taught with the microscopic study of the lesion. Great emphasis is laid upon the importance of an understanding of the inflammatory reaction, and the methods of healing which follow it The Department possesses a series of microscopic preparations for the presentation of the practical work in General and Special Pathology By means of these materials which have been prepared by the Assistants of the Department. the student is able to spend the alloted time to the study of the disease processes in the tissue, and he does not lose the time and effort in an attempt to carry out a technical procedure. The Department now possesses upwards of two hundred sets of these preparations, and it is hoped that these will soon be more than doubled

During the second half of the Fourth Year ,the student continues his studies in the Department of Pathology, receiving his instruction by

lectures and practical exercises in Special Pathology. During this course, the principles of Pathology which were studied in the preceding semester are applied to the individual organs of the body. In this manner the student becomes acquainted with the important lessons which make their appearance in the various tissites. These courses in Pathology are consistently illustrated by specimens from the Museum, coloured illustrations and by reference to texts and immographs. The student is encouraged to spend some time in accessory reading for which the library in this Department is available. Students desiring to acquire additional technique in preparing stande sections are encouraged to do so in their spare time.

FIFTH YEAR

During the Fifth Year the student will attend as many autopases as that time will permit, at the Toronto General Hoppital and ST Micheel's Hospital Special attention is being given to matruction in the autopy room, wherein the case is not only demonstrated during its dissection, but is analyzed with the Clinical report which must accompany every case A full discussion is entered into with the students and they are encouraged to analyze and criticize any of the problems under discussion. The student must be certified for at least twelve autopaics, as well as present a thesis upon one or more of the interesting cases which he has observed.

(The present Fifth Year (Class of 1928) will complete their studies in Pathology according to the curricultum of 1923-1924, wherein they will receive their instruction in Special Pathology by a course of fectures and a laboratory course covering this work. They will also attend autopsies as has been heretofore required)

SIXTH YEAR

During the Sixth Year one conference a week will be held upon the principal diseases which interest the General Practitioner. These conferences will be of the nature of case analyses wherein the Pathological processes of the disease will be offered in explanation of the Clinical manifestations. The conferences will requestly be carried on in conjunction with the members of the Clinical Departments as well as with members of the other laboratory Departments.

ADVANCED WORL AND SPECIAL RESEARCH

Opportunity is afforded to those suitably trained to pursue advanced work and special research in experimental and practical Pathology and Bacteriology For these purposes the laboratorics are equipped with the necessary apparatus and material

Text-books

Bactersology and Immunology Hiss and Zinsser, Park and Williams, Karsner and Ecker

Pathology Delafield and Prudden, Adams and McCrae, MacCallum, Mallory, Pembrey and Richie

PATHOLOGICAL CHEMISTRY

Professor V J HARDING

Demonstrators D H BODDINGTON, A P HART, F M R BULMER, I H

Fellows B E EAGLES, MISS K DREW Secretarial Assistant MISS M DUNCAN

FOURTH VEAR

A systematic laboratory course in routine chemical examination of urine, blood, and gastric contents, supplemented by lectures and demonstrations.

FIRTH VEAD

Lectures —A course of lectures extending throughout the year is given on the metabolic aspect of various pathological conditions

Clinical Laboratory — A locker with apparatus and seagents is supplied to each student in this year by the Department of Pathological Chemistry, which he will stitute for the conduct of all chemical examinations necessary, which he will stitute for the conduct of all chemical examinations necessary to the proper study of the cases under his charge. At least ten complete urine examinations shall be carried out, and the records filed both in the Department of Pathological Chemistry and the Departments of Medicine or Surgery. For the guidance of the student in such work, an instructor is in resultar intendance at hours accepted on the time-table.

Option Genera—A laboratory course in more advanced methods of chemical examination of urine and blood. This course is particularly designed to meet the needs of those who may with to pursue investigation owns; in vanous branches of internal medicine. The class is limited twicks, and it is desirable that students taking this course shall have taken previous option work in blochemistry or physiology.

STRTH VEAD

Clinical Laboratory — A locker is provided each student as in the previous year for the conduct of all chemical examinations necessary for a study of the cases under his charge

At the end of each year, each student shall make good any loss or damage to apparatus under his care Otherwise he shall not be permitted to sit for the University examinations

Text-books -- Wells, Chemical Pathology, Simon, Clinical Diagnosis

Reference Books —Lusk, Science of Nutrition, Myers, Practical Chemical Analysis of Blood, Underhill, Manual of Selected Biochemical Methods

HYGIENE AND PREVENTIVE MEDICINE

Professor J G FITZGEALD
ASSOCIATE Professor R D DETRIES
ASSOCIATE Professor D T FRANER
Director University Health Service and Lecture in Hygene G D Porter
Demonstrator in Maintrial Hygene J G Conningeam
Demonstrator in Santary Chemistry P J Microry
Demonstrator in Maintrial Hygene J R M CCENTRIAN
Demonstrator in Hygene A GAMPI FILMING R M MCCENTRIAN

trators in Hygiene A Grant Fleming, R. R. McClei Class Assistant Miss M. Maitland Secretarial Assistant Miss Isabel Stunders

The Department of Hygiene and Preventive Medicine provides a course of lectures and demonstrations in Preventive Medicine, Hygiene and Sanitation, for students in the fifth year in the Faculty of Medicine

Students in the Faculty of Medicane are required between the end of the Fifth and the beginning of the Sixth Year (either in June or September) to take a practical course of one month's duration in Preventive Medicine and Public Health in a Department of Public Health in Ontario, approved by the University

Lecture courses are provided also in Hygiene and Sanitation for students in the Faculties of Applied Science, Household Science and the Department of Social Service

Laboratory and didactic courses of instruction are given to students in the Faculty of Applied Soence who have elected the Santiary and Highways option and to students in the Department of Public Health Nursing In addition a series of lectures on Hygiene and Santation is delivered during the Winter Term to the Pupil Nurses of the Toronto Chaoter of the Canadian Association of Nursing Education.

A course of instruction for graduates in Medicine leading to the Diploma in Public Health was instituted in 1904. Details of the curriculum leading to the Diploma in Public Health will be found on page 87.

INDUSTRIAL HYGIENE

A course of instruction in Industrial Hygiene for graduates in Medicine is available for those wishing to undertake work in this branch of Preventive Medicine

Further details of the course may be obtained on application to the Head of the Department

Facilities for Research in Preventive Medicine, Hygiene and Public Health (Immunity, Serology and Bacteriology) are provided in the Research Division of the Connaught Laboratories, for graduates in Medicine and other suitably qualified candidates desirous of prosecuting such studies Text-books — Fitzgerald, Practice of Preventive Medicine, Rosenau, Preventive Medicine and Hygiene, Park, Public Health and Hygiene, Overton and Denno, The Health Officer, Prescott & Winslow, Elements of Water Bacteriology, American Public Health Association Standard Methods of Water Analysis

Reference Books—Kolmer, Infection, Immunity and Specific Therapy, Ledingham & Arkwright, The Carrier Problem of Infectious Diseases, Whipple, Microscopy of Drinking Water, Chandler, Animal Parasites and Human Disease, Mock, Industrial Medicine and Surgery, Linssen, Infection and Resistance (Srid edition)

MEDICAL JURISPRUDENCE Professor G SILVERTHORN FIRTH VEAR

Lectures —About eighteen lectures and class-room demonstrations will be given These will be illustrated as required by lantern slides and by specimens from the Pathological Museum or from private collections

The lecture course will embrace size also a discussion of —Legal Criminal proodures and the relation of Medical men therror Medical evidence, documentary and oral, ordinary and expert Personal identity of the luving and of the dead Thanatology The reality of death, post method changes, autopses and reports Causes producing deaths by violence such changes, autopses and reports Causes producing deaths by violence such as the various forms of suphysis, heat, cold, electricity, etc. Wounds in their medico-legal relations Blood status and the examination of blood Medico-legal aspects of the sevial functions, importency, sterility and legitimacy Pregnancy, abortion and infanticide Rape and allied offences against chastity. Civil and criminal malionescie.

Text-books —Glasster, Reese, Emerson, Draper, Buchanan's Text-book of Forensic Medicine and Toxicology

Reference Text-books.—Taylor's Principles, Whitthaus and Becker, Peterson and Haines, Drvon Mann, Cattell's Post Moriem Pathology, Greenc's Life Insurance, Atkinson's Law in Medical Practice, Cathell's The Physician Himself, Brother's Mechcal Jurisprudence, Wadsworth's Post Mortem Examinations.

RADIOLOGY

Associate G E RICHARDS
Instructors W H DICESON, A H ROLPH

FIFTH YEAR

A series of ten lectures will be given dealing with the principles underlying the use of X-rays and radium as therapeutic agents, and the practical application of these in the treatment of disease

SIXTH YEAR

Twenty lectures and demonstrations are given In this course the use of X-ray methods in the diagnosis of diseases of the Gastro-intestinal tract, the chest, and the skeletal system will be fully covered, and will be illustrated by plates and lantern slides. It is also proposed to make demonstrations to small crounts in the use of the fluorescent.

Test-books—Grover, Bieero-Therapeutos, Clark, Radium, X. Ray and Electo-Therapy, Knov, System of Radography and Radouberapy, 2 vols, Carman, Roestgen Diagnoss of Diseases of Gastro-Intential Tract, Simpson, Radium, Baetger & Watters, Diseases of Bosen dioints, George & Leonard, The Pathological Gall Bladder, Ruggles & Holmes, X.-ray Haterpetathon, The U S Army Manual of Radiologs

LECTURES IN DENTISTRY

The Faculty have arranged for a course of lectures to be delivered during the Session, on the application of Dentistry to Medicine The instruction will be given by a man properly qualified for the purpose and will be delivered to the students of the final year. The course will be obligatory

BUILDINGS

The University of Toronto provides the most ample facilities for the practical, didactic and clinical instruction of medical students. The following buildings are utilized by the student in his course in Medicine Bocipical, Chemical and Physics Buildings, Medical Building, Pathological Building, Anatomical Building, University Lubrary, Toronto General, St. Michael's and Western Hospitals and Hospital for Suck Childrena.

THE MEDICAL BUILDING

The Medical Building is situated between the University Library and the Biological Building

It is three storeys in height in front, with an additional storey and subbasement in the wings, which extend eastward. Two farge lecture rooms are provided which flank the main building, the larger has accommodation for about three hundred and fifty students, the smaller for about two hundred students

The three man floors of the building are arranged upon what has been called the nunt-system, a unt-room being thirty foct long by twenty-three feet deep, lighted on its long face by large windows. These rooms may be united so as to form large laboratories or may be cut in two where it is encessary to bave smaller rooms. On the ground floor in the man portion are situated in front the Secretary's office, a large faculty room, a lavatory, and a library.

The building is utilized for conducting the work in the Departments c Physiology, Biochemistry, Pharmacology, Hygiene and Preventi-Medicine, including the University branch of the Connaught I aboratorie and Zymology In it are also the administrative offices of the Faculty c Medicine.

THE LIBRARY

The University Library is contained in a building of its own, situate on the east side of the camous that lies to the south of the Main Building All students who have paid a library fee to the Bursar of the Universit are entitled to the privileges of the Library Besides Reading Rooms th building contains Departmental Studies, which may be used as study roons by honour students in the various branches in which the Professor hold seminary courses, and private studies, intended for members of th Faculty or advanced students engaged in research work The Library i opened at 8 45 every morning and remains open until 10 in the evenin during the academic term Books in ordinary use may not be taken or of the building during the daytime, but are lent for the night shortly before the hour of 5 p.m. to be returned the following morning before 10 o'clock Books not in general demand may, on special application be borrowed for a longer period Failure to return a borrowed book at th proper time and other breaches of the regulations are punishable by fin or suspension from the privileges of the Library

THE PATHOLOGICAL BUILDING

This building is situated on University Avenue and connected by covered corridor with the Out-patent Department and so with the ree of the Toronto General Hospital On the basement, or ground floor, at the Pathological Museum, lecture room and always room as well a students' coar room and lavatories. On the first floor are rooms for the routine Hospital pathology and class rooms for pathological histolog and bacteriology. On the second floor there are laboratories, and room for the Departmental Library and special classes in Pathology, in addition to a set of laboratories for pathological chemistry for the use of student in the Fourth and Fifth Years. On the third floor are the class rooms for systematic instruction in pathological chemistry and the laboratories for the staff in the Department, including balance, polarimeter, combustion and experimental frooms. Above this in the roof is the accommodation for animals.

Connected with the autopsy room is a cold storage plant with accommo dation for twelve cadavers, and by means of a brine circulation, refrigers tors in the staff laboratories on the first, second and third floors are kep

The lecture room has seats for about 150 students and is connected wit a room for preparing experimental demonstrations

The museum is planned especially for the instruction of students a small catalogue room and a preparation room are connected with it

The class rooms are divided into small units and are exceptionally well lighted

Lockers are provided for more than 300 students in the laboratories for pathological chemistry so that every student working in the Hospital may have his own place and apparatus

The building is of fire-proof construction throughout

THE ANATOMICAL BUILDING

The new Anatomical Building is situated to the east of the Medical Building to which it is parallel, and with the south wing of which it is connected

It consists of four storeys and a basement except at the north end where there is a large lecture-room, two storeys in height and capable of accommodating 260 students. Beneath the lecture room are several well-lighted and commodious rooms which are to be equipped as a laboratory for experimental surgery. The remainder of the basement gives ample soace for the reservation and storage of material.

The first floor is devoted to cloak-rooms for those occupying the lectureroom, a chart room and a photographic room, together with two demonstration or study rooms. Accommodation is also reserved for a Department of Anthropology which, it is hoped, may shortly be established

On the second floor is a commodious Museum occupying the south end of the building, with a preparation room in connection. Two laborations planned to accommodate classes in Histology, Embryology and Neurology are also provided upon this floor, together with a second lecture with seating accommodation for approximately 100 students, and two demonstration rooms

The third floor provides for a departmental library, private rooms for members of the staff and a dissecting room, while the fourth floor is devoted manly to a series of dissecting rooms, well lighted by sky-lights Certain of these rooms may be used as required for special classed approvision is also made for an osteology room and a demonstrators' room Ample locker and lawstory accommodations are provided

ROVAL ONTARIO MUSEUM

Archaeology, Geology, Mineralogy, Palaeontology, Zoology

Students of the University in all departments are recommended to avail themselves of the privileges of the Museum, which, although under separate control, is intimately connected with the work of the University. The Museum is onen on all week days from 10 a.m. to 5 p.m. also on

Thursday Evenings from 7 to 9, Sundays 2 pm to 5 pm. The admission

is free to the public on Tuesday, Thursday, Saturday and Sunday On other days an admission fee of fifteen cents is charged

By a resolution of the Board of Trustees all regular students of the University may be admitted free on all days of the week by presenting their card of registration

TORONTO GENERAL HOSPITAL

The Hospital has more than seven hundred beds, and during the last year admitted to its wards 10,918 patients

The Out-door Department, which has been elaborately equipped with especial attention to the requirements of teaching as well as treatment, is designed to receive and care for several hundred patients each day, if necessity demands Last year \$5.193 out-patients were treated

The Hospital is for the treatment of acute medical and surgical diseases, and the members of the staff are, in nearly every instance, drawn from the University Medical Faculty

The Hospital Block contains ten acres, and the group of buildings includes almost everything necessary to enable a student to acquire a practical knowledge of the profession of Medicine

On the south-west corner is situated the large Pathological Building, which is also an integral part of the Hoppital. In it are found the Pathological, Clinical and Chemico-Pathological Laboratories, as well as the Autoray Room, Mustums, etc. The Pathological Building is regarded as one of the most complete in America. There were 282 autopsize during the year.

North of the Pathological Unit is found the Out-Patients' Department already referred to, then follows the Emergency Hospital, fully equipped with every modern device necessary for the immediate care and treatment of emergency patients. In this building arrangements have been made for the teaching and demonstration of practical methods in minor surgery,

The Medical Wing, the Administrative Building and Surgical Wing face College Street These groups embody every modern requirement in hospital equipment, and special facilities for the student are provided—such as lecture room, cloak room, etc

Twelve Operating Rooms are to be found in the different Surgical sections. South of the Surgical Wing is located the Obstetrical Hospital with eighty beds. The number of births in this Department last year was 1,292.

The X-Ray Department is one of the most complete on the continent, and averages more than one hundred patients a day sent in for examination Complete courses are given to the students, so that they can qualify themselves in X-ray work — A well equipped Hydro-Therapeutic Department exists in connection with the X-Ray Department.

HOSPITAL FOR SICK CHILDREN

This large Hospital, with 202 bods, is entirely devoted to diseases inchildren, there having been 6,346 cases treated during the last year. In the Out-patient Department, 68,660 patients were attended. The old building has been remodelled and a large new wing has been built on the west side of the present building. These alterations and additions include new operating theatres, out-patient department, pathological laboratories and wards for infectious cases.

ST MICHAEL'S HOSPITAL

This institution is conducted as a General Hospital, where medical, surgical and obsettreal cases are admitted. The number of patients admitted last year was 5,055 while 49,025 cases were treated in the outpatient department. There were 456 births in the Obsetivacial Department. The commodation has been enlarged by the addition of a new wing, so that there are now 400 beds. An operating theater has been produced constructed with all the necessary modern equipment for the practice of antiseptic surgices.

TORONTO WESTERN HOSPITAL

This is a modern institution affording excellent opportunities for clinical study. During the past year 3,825 patients were admitted. There is an out-door service where dental, tubercular, surgical, medical, granecological and special clinics are held, the number of patients treated in the Outpatient Department Last year was 10,896.

Two large operating theatres are provided and the operations performed last year numbered 2,190 There is also an Obstetrical Department

There are four public wards specially adapted for clinical teaching each containing thirty beds, two of these wards are devoted to medical and two to surgical cases

INTERNES IN THE HOSPITALS

A number of resident assistants are appointed annually from the graduates in medicine of Universities, and hold their positions for one or two years

They will have full opportunities for acquiring experience in the general and special wards of the Hospitals, and during the session they will have charge under the physicians and surgeons in the wards

CONNAUGHT LABORATORIES

Derector J G FITZGERALD

Associate Derector R D DEFRIES

Research Member A H CAULIBILD

Research Associates D T Fraser, P J Moloney, C H Bess Research Assistants Beecher Weld, M Maitland, L O Hanna Bacteriologists A Bolton, H Wigham

Chemists D A SCOTT, KENNETH MACALPINE

The Connaught Laboratores, consuting of Research, Antitovin and Insuin Divisions, have a scope somewhat similar to that of the Lister Institute, London, The Pasteur Institute, Paris, and the Rockefeller Institute, New York, in the field of Preventive Medicine, Stactorious, Serology, and Immunity Primarily established for research in Preventive Medicine, the Laboratories are also engaged in the production and distribution of Public Health Biological Products and Institut The distribution of Public Health Biological Products and Institut The distribution of Public Health Stological Products and Institut The distribution of Public Health English as commenced in May, 1014, and succeed that date the production of other seer and vaccines has been undertaken and the distribution extended throughout Canada and Newfoundard, the British West Indies, and to New Zealand. The preparation of Insulin Generative Arried was commenced in Insulin. 1022

The products distributed include diphtheria antitoxin, tetanus antitoxin, anti-meningitis serum, small-pox vaccine, anti-pneumococcus serum, typhoid vaccine and rabies vaccine and insulin

Since Perviany 1st, 1918, the Provincial Board of Health of Orstane has distributed, free of charge in Ortano, all of the above named products. The Scoretaires of the Local Boards of Health need only make application to the Chief Officer of Health, Parliament Buildings, Toronto, and ourpless are at once forwarded. Physicians and Hospitals are supplied by the Secretary of their Local Boards of Health.

Similarly in September, 1917, the Bureau of Public Health, Saskatchewan, began free distribution of diphtheria antitorin in that Province (The antitoxin so supplied is prepared by these Laboratories)

The Department of Militia and Defence was supplied with tetanus antitoxin and other biological products used by the Canadian Expeditionary Force Overseas and in training in Canada,

In October, 1017, a farm of over fifty acres and completely equipped laboratories and stables were presented to the University by Colonel Albert Gooderham These Laboratories were given to provide facilities for research in Preventive Medicine, and also to provide for the production of serums and vaccines in connection with these Laboratories there has been established the Connaught Laboratories Research Fund, the interest

THE BANTING AND BEST CHAIR OF MEDICAL RESEARCH

Professor F G BANTING
Research Associate C H Best

Research Fellow B S CORNELL

Research Assistants Miss Sadie Grarns, Miss Jessie Ridout

The Banting and Best Chair of Medical Research was established by the Board of Governors of the University as the result of a special grant of the Legislature of the Province of Ontano in 1923

The terms of the Act establishing the Banting and Best Research Fund provide for an annual grant to the University of Toronto for the promotion of Medical Research in accordance with the following preamble which appears in the Act —

"Whereas F G Banting, M D, and C H Best, B A, in the prosecution of medical research have made an important discovery by means of which it is now possible to ameliorate the condition of persons suffering from the disease known as disbetes, and it is believed that prosecuting the research will result in perfecting a remedy for the cure of that disease, and it is desirable and expedient in the public interest to provide by legislative grant the conditionation and prosecution of kinder dresscapels "

Research under the provisions of this Chair began in July, 1923, and researches on several medical problems are being carried on in laboratories in the Medical building of the University Work is also being carried out in the Insulin Division of the Connaught Laboratories, with funds provided from this grant.

GENERAL INFORMATION FOR STUDENTS

PHYSICAL TRAINING

By order of the Board of Governors each male student proceeding to a degree must take Physical Training in the First and Second Years of his attendance. He must first undergo a medical examination by the Director of the University Health Service to determine the character of his training

Each woman student proceeding to a Bachelor's Degree in the Faculty of Medicine shall be required, during the first year of her attendance, to take Physical Training, following an examination by the Medical Advisor for Women

A student who has failed to complete satisfactorily the course in Physical Training prescribed for the First Year will not be permitted to register in the Third Year, and the student who has failed to complete satisfactorily the course in Physical Training prescribed for the Second Year, will not be permitted to register in the Fourth Year.

DISCIPLINE

The Council of University College and the governing bodies of the federated universities and colleges, respectively, have-disciplinary jurisdiction over and entire responsibility for the conduct of their students in respect of all matters arising or occurring in or upon their respective college buildings and grounds, including residences

The councils of such of the faculties as have assigned for their separate use any building or buildings and grounds, including residences, have disciplinary jurisdiction over and entire responsibility for the conduct of all students in their respective faculties in respect of all matters arising or occurring in or upon such building or buildings and grounds;

In all such cases, and, save as aforested, as respects all students to whatsoever college or faculty they may belong, disciplinary jurisdiction is vested in the Caput, but the Caput may delegate its authority in any particular case or by any general regulation to the council or other governing body of the university or college or faculty to which the student below.

If there be any question as to the proper body to exercise jurisdiction in any matter of discipline which may arise, the same shall be determined by the Caput, whose decision shall be final

Disciplinary jurisdiction includes the power to impose fines

REGULATIONS RELATING TO STUDENTS IN ATTENDANCE

No student will be enrolled in any year, or be allowed to continue in attendance, whose presence is deemed by the Council of the Faculty to be prejudicial to the interests of the University

Students proceeding regularly to the degree are required to attend the courses of instruction and the examinations in all subjects prescribed for students of their respective standing, and no student will be permitted to remain in the University who persistently neglects academic work

Unless special permission is gianted by the Council, a student who, at the close of two sessions in the University, has failed to secure standing in his year, will not be permitted registration in the Faculty of Medicine

The Students Administrative Council has been entrusted by the Caput with supervision of the conduct of the students, and has power, subject to the approval of the Caput, to deal with violations of the regulations governine conduct

Any student who may be convicted of having taken part in a parade or procession through the city which has not been authorized by the police authorities after application by the Executive of the Students Administrative Council, will be severely disconlined

All interference on the part of any student with the personal liberty of another by arcesting him, or summoning him to appear before any unauthorized tribunal of students, or otherwise subjecting him to any indignity or personal violence, is forbidden by the Caput

A student who is under suspension, or who has been expelled from a College or from the University, will not be admitted to the University buildings or grounds

The constitution of every University society or association of students in the Faculty of Medicine and all amendments to any such constitution must be submitted for approval to the Council of the Faculty. All programmes of such societies or associations must, before publication, receive the sanction of the Council of the Faculty through the President Permission to invite any person not a member of the faculty of the University to preside at or address a meeting of any society or association must be similarly obtained.

The name of the University is not to be used in connection with a publication of any kind without the permission of the Caput

THE UNIVERSITY OF TORONTO MEDICAL SOCIETY

This Society consists of the graduates and undergraduates enrolled in the Faculty of Medicine of the University of Toronto It is under the patronage of the members of the Faculty of Medicine and its object is to deal with all matters pertaining to the general interest and welfare of the students, especially—

- (a) To encourage interest in general medical science and literature, and in pursuit of medical studies
 - (b) To provide telephones for the convenience of students
- (c) To be a means of communication between the Student body and the Faculty or others, when such communication is desirable
- (d) To provide a series of entertainments for students at intervals during the Session
 - (e) To assist the student who becomes ill during the Academic year
 - (f) Each student will be required to pay the annual fee of two dollars to the Bursar, to be divided as follows —

| Medical Society Fee | \$1 00 |
|---------------------|--------|
| Athletic Fee | 1.00 |

FACULTY OF APPLIED SCIENCE AND

ENGINEERING

FACULTY OF APPLIED SCIENCE AND ENGINEERING

U-PROBLEM SERVE

The Legislative Assembly of the Province of Ontano during the Session of 1877 gave its sanction to the establishment of a School of Practical Science on the basis proposed in the memorandum of the Minister of Education confirmed by the Lieutenast-Governor in Council on the 3rd day of February, 1877

By the scheme thus approved the Government effected an arrangement with the Council of University College whereby the students of the School of Practical Science enjoyed full advantage of the instruction given by its professors and lecturers in all the departments of science which were embraced in the work of the School

This arrangement was brought to an end in 1889 by the transfer of the department of science, above referred to, from University College to the University of Toronto under the operation of the University Federation Act.

In order that the students of the School might continue to enjoy the advantage of the instruction of the above departments, the Senate of the University of Toronto passed a Statute in October, 1889, affiliating the School to the University, which Statute was confirmed by the Lieutenant-Governor on the 50th day of Gorder. 1889

By an Order-sn-Cotsacil, approved by the Lieutenant-Governor on the bit day of November, 1889, a Principal was appointed, and the management of the School was entrusted to a council composed of the Principal as charman, and the Professors, Lecturers and Demonstrators appoint on the Teaching Faculty, of the School By the terms of this order the management and discribute of the School was vested in the Conneil

By the University Act of 1000 the School of Practical Scence became the Faculty of Applied Scence and Engineering of the University of Torosto, although on December 14th, 1000, the Senate by Stattte, subsequently approved by the Leutenant-Governor in Council, established a Faculty of Applied Scence and Engineering but without assuming any inability for its support or maintenance. Under this Statute the teaching Staff and Examiners of the School of Practical Scence become the teaching Staff and Examiner of the Faculty, although the University retained the right to appoint the Examiners for the Bachelor of Applied Science and professional derivance.

On April 8th, 1892, the Senate of the University established the Degree of B ASe, which was open to those who held the Diploma of the School and were prepared to devote a fourth year to advanced work. In Session 1993-1913 a new Course extending over four years and leading to the Degree of B ASe came into operation, taking the place of the great plant of the Session 1910-1915 and the Session 1910-1910-1915 and the Session 1910-1915 and the Session 1910-1910-1915 and the Session 1910-1915 and the Session 1910-1910-1915 and the Session 1910-1915 and the Session

MATRICULATION

A candidate for admission to the First Year in the Faculty of Applied Science and Engineering must produce satisfactory certificates of good character and of having completed, the seventeenth year of his age on or before the first of October of the year in which he proposes to register

He must also present certificates giving him credit in the following subjects of Pass and Honour Matriculation

PASS MATRICULATION

ENGLISH (Literature and Composition)
HISTOFY (British and Ancient)

MATHEMATICS (Algebra and Geometry) Any three of

LATIN (Authors and Composition)

GREEK (Authors and Composition)

FRENCH (Authors and Composition)

GERMAN (Authors and Composition)

SPANISH (Authors and Composition) or

SPANISH (Authors and Composition)

ITALIAN (Authors and Composition)

EXPERIMENTAL SCIENCE (Physics and Chemistry) or

AGRICULTURE (Parts I and II)

HONOUR MATRICULATION

(At least 50%)

ENGLISH (Literature and Composition)
MATHEMATICS (Algebra, Geometry and Trigonometry)

One of

LATIN (Authors and Composition)

GREEK (Authors and Composition)

FRENCE (Authors and Composition)

GERMAN (Authors and Composition)

SPANISH (Authors and Composition)

In selecting the options it is recommended that students take French, German and Experimental Science. In the Department of Architecture, French is required, in the Departments of Chemical Engineering and Mechanical Engineering it as desarable that students take German For students intending to take Metallurgical Engineering, Spanish and Experimental Science are recommended.

The regulations respecting Matriculation, together with a schedule of examinations which may be accepted as equivalent, may be found in the Curriculum for Matriculation on application to the Registrar of the University

ADMISSION

Applications for admission must be made on blank forms supplied by the Registrar, and should be forwarded as early as possible to the Registrar of the University, together with all Pass and Honour Matriculation or couvalent certificates

Applications based upon certificates other than those mentioned will be considered as occasion may require. Such certificates must be accompanied by an official statement of the marks in the various subjects upon which the certificate was cranted.

ADMISSION AD BUNDRM STATUM

An undergraduate of another University may be admitted ad sundem statum on such conditions as the Senate on the recommendation of the Council of the Faculty may prescribe

An applicant for admission ad eundem statum must submit with his petition (1) a calendar of his University giving a full statement of the courses of instruction, (2) an official certificate of character and academic standing

REGISTRATION

Students in any year will be required to register in person on the date is specified in the Calendar for the registration of students in that year. Those who present themselves on subsequent days must petition the Council to be allowed to register. Council reverse the right to graph person of the property of the property of the property of the dates specified dates specified.

ENOURIES

Enquiries with reference to requirements of admission to the Faculty of Applied Science and Engineering are to be addressed to the Registrar of the University

Communications relating to curricula, instruction, examinations and standing therein, in the Faculty of Applied Science and Engineering are to be addressed to the Secretary of the Faculty

DEGREES

Degree of Backelor of Applied Science (B A Sc)

Degree of Backelor of Architecture (B Arch)

There are six graduating Departments leading to the Degree of Bachelor of Applied Science (B A Sc.) and one graduating Department leading to the Degree of Bachelor of Architecture (B Arch.), ν_{12} ,

- 1 Civil Engineering 2 Mining Engineering
- 3 Mechanical Engineering
- 4 Architecture
- 5 (Discontinued)
- 6 Chemical Engineering
- 7 Electrical Engineering
- 8 Metallurgical Engineering

Descriptions of the courses in these Graduating Departments are given on pages 36, 37, 42, 45, 49, 52, 55, 58

In the fourth year, optional courses are arranged in certain departments Students are required to submit their selection to the Secretary in writing, not later than September 15th. The proposed selection must be approved by Council before adoption

Degree of Master of Applied Science (M A Sc)

Degree of Master of Architecture (M Arch)

Graduates holding the Degree of B A Sc of this University or those holding the degree of another University recognized as equivalent, may take post-graduate work proceeding to the Degree of Master of Applied Science (M A Sc) (For requirements, see page 103)

Graduates holding the Degree of B Arch or B A Sc in Architecture of this University, or those holding the Degree of another University recognized as equivalent, may take post-graduate work proceeding to the Degree of Master of Architecture (M Arch) (For requirements, see p. 103)

Professional Degrees

Graduates in Applied Science and Engineering, and graduates of the School of Practical Science, man, after three years spent in professional work, present themselves for the degrees of Cvul Engineer (CE), Minning Engineer (ME), Mechanical Engineer (ME), Electrical Engineer (EE), as Chemical Engineer (Chem E), Mechaliurgical Engineer (Met E), as the case may be, subject to the rules and regulations established by the University (See page 104)

FEES

All fees are payable at the Bursar's office between the hours 10 a m and 1 p m of each week day except Saturday (or may be remitted by mail)

The annual fees, including tuition, library, laboratory supplies and one annual examination for each year, shall be as follows

| If paid in full on or before November 5th | \$150 | 00 |
|--|-------|----|
| If paid by instalments | | |
| First instalment, if paid on or before November 5th | 75 | 00 |
| Second instalment, if paid on or before February 5th | 78 | 00 |

Second instalment, if paid on or before February 5th 78 (
Repeating the year—If paid in full on or before November 5th 75 (

The above fees are payable in advance After November 5th a penalty of \$1.00 per month will be imposed until the whole amount is paid. In the case of payment by instalments the same rule as to penalty will apply

Students must have paid the sees due in the first term before proceeding to the work of the second term

GENERAL FRES

| Matriculation, or registration of Matriculation | \$ 5 00 |
|---|---------|
| Supplemental examination | 10 00 |
| Admission ad eundem statum | 10 00 |
| Degree of B A Sc | 10 00 |
| Degree of B Arch | 10 00 |
| Degree of M A Sc | 25 00 |
| Degree of M Arch | 25 00 |
| Physical Training (see page 21) | 5 00 |
| Supplemental Physical Training (see page 21) | 10 00 |
| Hart House (see page 21) | 8 00 |
| Students' Administrative Council (see page 21) | 3 00 |

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| DUES AND DEPOSITS | |
|---|------------|
| (Payable to the Secretary of the Faculty at the time of regis | stration) |
| Engineering Society membership | 82 00 |
| Athletic Association membership | 100 |
| Annual deposit, Departments 1, 3, 4, 7 | 3.00 |

Charges for waste, neglect and breakage are to be met out of the deposit fee, the balance of which will be refunded to the student at the end of the session on application to the Secretary.

Departments 2, 6, 8

If the foregoing deposits do not cover the cost of breakage due to carelessness or neglect, the balance shall be paid by the student to the Secretary and in default of such payment the results of his examination will be withheld

HART HOUSE FEE

Every male student in attendance, proceeding to a Bachelor's Degree in the Faculty of Applied Science and Engineering, is required to pay to the Bursai before December 1st the annual fee of eight dollars for the maintenance of Hart House 1f this fee is not paid by the above date a nenalty of two dollars will be imposed, making the total fec ten dollars.

STUDENTS' ADMINISTRATIVE COUNCIL FEE

Every student in attendance, proceeding to a Bachelor's Degree in the Faculty of Applied Science and Engineering, is required to pay to the Bursar at the time of the entry of his name with the Secretary the annual fee of three dollars for the support of the Students' Administrative Council

PHYSICAL TRAINING FEE

Every male student in attendance proceeding to a Bachelor's Degree in the Faculty of Applied Science and Engineering is required to pay to the Bursar tile annual Physical Training fee of 85 00 at the opening of each session in which Physical Training is compulsory for that student

A student who has failed to complete satisfactorily the course in Physical Training prescribed for the First Year will not be permitted to register in the Third Year, and the student who has failed to complete satisfactorily the course in Physical Training prescribed for the Second Year will not be permitted to register in the Fourth Year

Every student who has neglected to complete satisfactorily the course in Physical Training of the First or Second Year, and who must take this work during the Second or Third Year respectively of his course, will be required to pay to the Bursar at the opening of the session a Supplemental Fee of \$10.00, in addition to the prescribed Physical Training fee

SCHOLARSHIPS.

BOILER INSPECTION AND INSURANCE COMPANY SCHOLARSHIP

The Boiler Inspection and Insurance Company of Canada offers a Scholarship in the Department of Mechanical Engineering of the value of \$150.00 to the student who obtains highest Honour Standing in the regular examinations of the third year.

The successful candidate will be expected to proceed to his fourth year during the session next following the date of the award

The amount of the award will be credited by the Bursar to the fees of the fourth year of the successful candidate

ONTABIO ASSOCIATION OF ARCHITECTS' ARCHITECTURAL SCHOLARSHIT The Ontario Association of Architects offers a scholarship in the Department of Architecture of the value of \$100 to the student who has obtained the highest standard of general proficency during the first year. This scholarship will be awarded annually in May, 1922 to 1928 inclusive

TORONTO ARCHITECTURAL GUILD MEDAL

The Toronto Architectural Guild was the organization of local architects from which spring the Ontario Association of Architects. When the new and wider association became firmly established, the Guild disbanded and handed over to a trustee board certain funds for the establishment of a Medal to be awarded in the Department of Architecture of the University of Toronto.

The Trustee Board, now that the fund has accumulated considerably, announces its intention of awarding this medal annually to a senior student showing outstanding ability in Architectural Design

HARVEY AGGETT MEMORIAL SCHOLARSHIP

This scholarship was donated by Mr J T Aggett, of Toronto, as a perpetual memorial to his son, the late Lieutenant Harvey Aggett, who enlisted in March, 1915, during his second year in this Faculty, and was killed in action at Passchendaele on 6th November, 1917

This annual scholarship of the value of seventy-five dollars is to be awarded to a student of the second year in this Faculty who, obtaining honours and being one of the first three in his year by his standing at the annual examinations relative to the pass requirements in his department, has been adjudged highest of the three in general student activities and service in the University during his period of attendance

THE 1851 EXHIBITION SCIENCE RESCARCE SCHOLARSHIP

The Royal Commissioners for the Exhibition of 1851, if satisfied with the qualifications of the candidates put forward, will each year allot three Science Research Scholarships to Canada The University of Toronto has been invited to recommend annually one or more candidates in order of ment for these Scholarships.

- 1 Each candidate recommended must be a British subject and under tunnity-avy send of age, except under very special cucrumstances, he must be a boan fide student of Science of not less than three years' standing, he must also have completed a full University course and have spent at leave one full academic year at this University point to the date of recommendation.
- 2 Applications for these Scholarships must be made to the Registrar of the University not later than March 15th, the latest date on which the recommendation of the University of Toronto for Scholarships offered in 1925 can be received at the Office of the Commissioners is May 1st, 1925.
- 3 Each Scholarship is of the value of £250 per annum, payable quarterly in advance, on presenting to the Commissioners a satisfactory final report

at the expiration of his Scholarship the scholar will receive a grant of £25. A scholar who is not in a position to travel at his own expense, or for whom it is not possible to obtain free passage, may make application to the Commissioners for aid towards the payment of his fare from his University to his place of study A Scholar will receive an additional annual allowance, not exceeding £30, towards the cost of University fees, if, in the opinion of the Commissioners, he is in need of such allowance.

- 4 The Scholarship will be tenable ordinantly for two years, and in cases of exceptional ment for three years. The continuation of a Scholarship for a second year will depend upon the astisfactory nature of the scholar's first year's work. Renewal for a third year will be granted only with it appears that the renewal is likely to result in work of scientific immoortance.
- 5 The scholar will be required to devote himself to research in some branch of pure science, or its practical applications
- 6. A scholarship may be held, with the approval of the Commissioners, at any Institution at home or abroad, but a scholar will not be permitted, except under very special circumstances, to conduct his investigations in the country in which he has received his scientific education. After consultation with the Head of the Department in which he elects to study, the scholar will submit, for the approval of the Commissioners, his proposed subject of research.
- 7 Scholars will be required to furnish reports of their work at the end of each year of tenure of their scholarships
- 8 Scholars will be required to devote their whole time to the objects of the scholarship, and will be forbidden to hold any position of endolument which carries with it a duty inconsistent with their obligation to the Commissioners Scholars must in any case obtain the consent of the Commissioners before accepting any additional endoluments
- 9 In case of misconduct on the part of a scholar the Commissioners may, at their absolute discretion, deprive him of his scholarship and all emoluments therefrom

The regulations adopted by the Senate are as follows -

The departments, students of which shall be eligible to be candidates, are — I Bacterology, 2 Buchemstry, 3 Blodgy (Zodolgy), 4 Bottany, 5 Chemustry, 6 Engenering (Carboll, 7 Engueering (chemical), 5 Engueering (chemical), 6 Engueering (chemical), 10 Engueering (cavil), 11 Engueering (cavil), 12 Forestry, 13 Geology, 14 Mineralogy, 15 Pathology, 16 Physics, 17 Physiology

A student shall not be deemed to be ineligible because of his being on the teaching staff of the University, if he has not been in receipt of a salary of more than \$900 per annum and has not been on the teaching staff for more than two years from graduation

A student shall be deemed to be eligible in the year in which he intends to graduate, but if nominated for the Scholarship his nomination shall be subject to his being successful in passing his examination for his

The nomination of the candidate or candidates shall be made by a Board composed of seven members appointed by the Senate, and the Board shall consist of the Chancellor, the President, the Reverend Dr Bowles, the Honourable Mr Justice Masten, the Honourable Mr Justice Riddell and Dr J A Worrell, and the Board shall have power to call to its aid as assessor any member of the teaching staff

THE RHODES SCHOLARSHIP

The trustees of the late Mr C J Rhodes have assigned one of the Rhodes Scholarships to the Province of Ontario This scholarship will hereafter be thrown into open competition in the

Proxince, subject to the following conditions -

1 Candidates must be British subjects, with at least five years' domicile in Canada, and unmarried They must have passed their nineteenth, but not have passed their twenty-fifth hirthday, on October 1st of the year for which they are elected

2 Candidates must be at least in their Sophomore Year at some recognized degree-granting University or College of Canada, and (if elected) complete the work of that year before coming into residence at Oxford

3 Candidates must elect whether they will apply for the Scholarship of the Province in which they have acquired any considerable part of their educational qualification, or for that of the Province in which they have their ordinary private domicile, home or residence. They must be prepared to appear before the Committee of Selection for the Province they select

In each Province there will be a Committee of Selection, appointed by the Trustees, in whose hands the nomination will rest. The Secretary of the Committee of Selection for Ontario is Norman S. Macdonnell, Esq., Barrister, Sun Life Building, Toronto

The Committees of Selection will be instructed to bear in mind the suggestions of Mr Rhodes, who wished that, in the choice of his Scholars. regard should be had to literary and scholastic attainments, fondness for and success in outdoor sports, qualities of manhood, moral force of character, and leadership in school and college life

Every candidate for a Scholarship is required to furnish to the Committee of Sclection for his Province the following -(a) A certificate of age

- (b) A written statement from the President or Acting President of his College or University to the effect that his application as a suitable candidate is approved
- (c) Certified evidence as to the courses of study pursued by the Scholar at his University, and as to his gradings in those courses. This evidence should be signed by the Registrar, or other responsible

- (d) A brief statement by himself of his athletic and general activities and interests at College, and of his proposed line of study at Oxford
- (e) Not more than four testimonials from persons well acquainted with
- (f) References to four other responsible persons, whose addresses must be given in full, and of whom two at least must be professors under whom be has studied

It is in the power of the Committee of Selection to summon to a personal interview such of the candidates as they find desirable to see, and, save under exceptional circumstances, no Scholar will be elected without such an interview. Where such an interview is dispensed with, a written statement of the reasons will be submitted to the Trustees.

The Scholarships are of the value of £300 a year, and are tenshle for three years, subject to the continued approval of the College at Oxford of which the Scholar is a member They will be paid quarterly. The first payment (£75) will be made at the beginning of the Scholar's first term at Oxford. No request for any earlier payment can be considered.

On account of the increased cost of living the Rhodes Trust is giving an additional bonus of £50 per annum until further notice

Rhodes Scholar, graduate of this Faculty -

W J Browne, B A Sc., 1919

THE MCCHARLES PRIZE

This prize has established in connection with the bequest of the late Canesa McCharles of Provincial Government bonds of the value of \$10,000, and is awarded on the following terms and conditiones, namely, that the interest therefore mability be given from time to time, but not necessarily every year, like the Nobel prizes in a small way (1) To any Canadian from one end of the country to the other, and whether student or not, who invents or discovers any new and improved process for the treatment of Canadian ores or minerals of any kind, after such process has been proved to be of special ment on a practical scale, (2) of for any important discovery, invention or device by any Canadian that will lessen the danger and loss of life in connection with the use of electricity is supplying power and laght, (3) Or for any marked public distinction scheeced by any Canadian in secution rescribed inc. The following conditions, an passed by the Board of Governors, determine the method of award —

- (1) The title shall be the McCharles Prize
- (2) The value of the prize shall be One Thousand Dollars (\$1,000 00) in money
- (3) The term "Canadian" for the purpose of this award shall mean any person Canadian born who has not renounced British alliance, and for the purpose of the award in the first of the three cases provided for by the bequest, domicile in Canada shall be an essential condition

- (4) Every candidate for the prize shall be proposed as such in writing by some duly qualified person A direct application for a prize shall not be considered
- (5) No prize shall be awarded to any discovery or invention unless the same shall have been proved to the satisfaction of the awarding body, to possess the special practical merit indicated by the terms of the bequest
- (6) The order of prisents in which the three cases stand in the wording of the hequest shall be observed in making the award, that is, the award of the hequest shall be observed in making the award, that is, the award shall go actient herebed to the inventor of methods of smelting Canadam shall go actient persbed to the inventor of methods for lessening the dangers attendant upon the use of electricity, and only in the third versar, if no inventors of sufficient ment in the field of metalliturgy and electricity present themselves, to the inventor distinguished in the general field of jusqu'il a scentific research.
 - (7) The first award was made in 1910
 - (8) The composition of the awarding body shall be as follows -
 - An expert in Mineralogy,
 - An expert in Electricity,
- An expert in Physics, and four other persons All of the members of this body shall be nominated by the Board of Governors of the University of Toronto

THE KHAKI UNIVERSITY AND Y M C A MEMORIAL SCHOLARSHIP FUND

The Khaki University and Y M C A Memorial Scholarship Fund was established by the Khaki University Contimitée. At the present time this fund is being used to make loans to returned-solder students of the higher years. Applications for such loans should be made to the President of the University.

THE JARDINE MEMORIAL PRIZE FOR ENGLISH VERSE

- 1 This prize, of the value of \$100, shall be open to any regular under-graduate student who has been in actual attendance at the University during the academic year preceding the date of submission (November 1) or who graduated in the previous academic year.
- 2 The subject and metre of the poem shall be left to the choice of the competitor
- 3 It is suggested that the length of the poem should be not less than 100 or more than 300 lines
- 4 The poems shall be in the hands of the Registrar of the University
- o Each poem shall be signed with a pseudonym and the competitor's name shall be submitted to the Registrar in a sealed envelope on which the pseudonym shall be written
- 6 With his or her name the competitor shall enclose a signed statement that the poem is absolutely his or her original work

7 The competition shall be judged by a board of five examiners, consisting of the head of the Department of English in each of the four colleges, and of a fifth examiner to be chosen by these four

8 The examiners shall have the power to withhold the award in any year if no poem which has been submitted for that year be found worthy of the prize

Awarded in 1920 to H D Langford, 1921, E W McInnis, 1922, no award

THE HOUSEARA FRANC

The S Ubukata Fund of \$10,000, the gift of Mr S Ubukata, provides for the establishment of prizes, medals, scholarships and loans for which Japanese students of all faculties and colleges may be eligible Information regarding the conditions of award may be obtained from the Registrar of the University.

HOLLINGER RESEARCH FELLOWSHIP

The Hollinger Consolidated Gold Mines, Limited, awarded a fellowship of \$1,200 for research in the Department of Mining Engineering for the session 1923-1924

IUNIOR INSTRUCTORSHIPS

Provision is made for the sessional appointment in various departments of graduates as Fellows or Demonstrators, whose duties shall consist of aiding in the work of instruction under the direction of the department concerned

Applications for appointment should be made in writing to the Secretary of the Faculty not later than September 1st

RESEARCH ASSISTANTSHIPS

A number of research assistants in the School of Engineering Research are appointed annually on salary, in the various departments, to carry on the work of research under the direction of members of the staff. This work is accepted as partial fulfilment of the requirements for the degrees of M AS can dM Arch. These research assistants are usually recent graduates and are chosen from among those who have displayed special capacity for investigational work in their undergraduate courses. Prospective applicants should consult with members of the staff as soon as possible fare the annual examination.

REGULATIONS RESPECTING EXAMINATIONS REGULAR EXAMINATIONS

Promotions from one year to another are made on the results of the annual examinations. A student proceeding to a degree must pass all the examinations in the subjects of his course and at the periods arranged from time to time by the Council

Candidates who fail in passing the annual examinations will be required to take again the whole course of instruction, both theoretical and practical, of the year in which they fail before presenting themselves a second time for examination (This repetition includes vacation work)

A student who in either term of the session fails to perform the work of his course in a manner satisfactory to the professors in charge, will not be allowed to present himself at the final examinations of the year

In the second, third and fourth years annual examinations will be held at the beginning of the second term on all subjects completed during the first term

No student will be allowed to write at any examination who has not paid all fees and dues for which he is hable at that time

The pass marks required on written examinations is 40% and on practical examinations 60%

Honours will be granted in each department to the students who obtain at least 50 per cent in each subject, and 75 per cent of the total number of marks allotted to the department at the annual examinations

Honour Graduate standing will be granted to those who obtain honours in the final and in one previous year

TERM EXAMINATIONS

Term examinations may be held in any subject and at any time at the descretion of the instructor or by order of the Council, and the results of such examination may, if the Council so decides, be incorporated with those of the annual examinations in the same subjects

SUPPLEMENTAL EXAMINATIONS

A candidate who fails in one or two subjects at the Annual Evaninations will be required to take supplemental examinations in such subjects, but no student will be allowed a supplemental examination in the laboratory work of the fourth year

The supplemental written examinations will begin on the 24th day of September, 1924. Notice in writing of his intention of taking such examinations (including practical ones) must be received from the candidate by the Secretary of the Faculty, and the fee of \$10.00 received by the Bursar, not later than the first of September Council reserves the right to reject applications of, or impose penalties upon, those failing to comply with these requirements Arrangements will be made to conduct supplemental examinations at the Survey Camp for those students in attendance.

In the case where a candidate desires to write upon an annual examination as a supplemental, his application must be received by the Secretary, and his fee by the Bursar, for the January examinations not later than the first of December and for the April examinations not later than the first of March Where a candidate fails to pass a supplemental examination it will be counted as one of the two supplemental examinations which may be allowed him after the next annual examination.

No student will be permitted to take the work required for a laboratory supplemental examination at any time other than the regular time of the session

VACATION NOTES

All Departments

Vacation notes must be handed to the Department of Engineering Drawing on or before the first day of the session

Vacation notes must be on construction only, and contain not less than twenty, nor more than thirty pages of sketches. These sketches must be freehand penul drawness with forured dimensions

Notes must be made in standard note books approved of by the Faculty. Notes which have been taken during the session in connection with the work in drawing will not count as vacation work

The minimum percentage of marks required for practical work must be made in the case of vacation notes (See page 101)

VACATION LETTERS

Department of Mining Engineering

THIRD YEAR STUDENTS —Four letters to be written and mailed to the Professor of Mining Engineering, one each month, June, July, August and Sentember, at least one letter must deal with a labour ensode

FOURTH YEAR STUDENTS -The student may select either one of the following alternatives -

- A Four letters to be written and mailed, one each month, June,
 July, August and September, at least one letter to be on a labour
 emisode or
- B One letter describing a labour episode to be written and maided to the Professor of Mining Engineering not later than June 30th, and an article of suitable character and length for submitting to the Engineering Institute of Canada or the Camadian Mining Institute as a student's paper, to be written and maided to the Professor of Mining Engineering not later than September 30th (See page 70).

FIELD EXPERIENCE

Department of Mining Engineering

The following are the regulations governing field experience certificates: A candidate for the degree in the Department of Mining Engineering will be required to present assisfactory evidence of having had at least six months' practical experience in work connected with mining, metallurgy or sealow, for which he must have received regular wages

The time may be spent on geological survey, in ore dressing, smelter or institution works, in an assay office in the vicinity of mining or metal-lurgical works, on any work in or about a mine other than as an office man or clerk, or in prospecting. Not more than three months on geological surveys will be accepted, and prospecting will only count on-half (e e, four months' prospecting will be counted as two months) and must not be submitted for more than three of the six months.

In addition to the above, two months must be spent as office man or clerk

Certificates must be made out, signed, countersigned and sent during the first term to the Secretary of the Faculty of Applied Science and Engineering, who will retain them

SHOP WORK

Departments of Mechanical and Electrical Engineering

Students in Mechanical and in Electrical Engineering are not granted their degree until certificates have been submitted to the Council, and accepted as satisfactory, showing not less than 1,000 hours of mechanical experience in production under commercial conditions. Preferably the work undertaken should be in one of the manufacturing industries or tridaes with which the course is related. Certificates, on the standard form which may be procured from the Secretary, must be presented during the first term.

It is not desirable that a student in these courses should enter the engineering industries without having acquired some experience in mechanical production and it is therefore required that he obtain this experience under commercial conditions, so that he can appreciate shop conditions and limitations.

REGULATIONS RESPECTING TERM WORK

Students working in any laboratory must be governed by the regulations relating thereto as made known from time to time

No laboratory reports or drawings may be removed from the laboratories without permission. The Council reserves the right to dispose of them as may be thought proper.

FIELD WORK

Field Work in Surveying of the First and Second Years will be taken on the University grounds, during the first term

No field notes will be counted which have not been taken in the field and during the hours allotted to such work

Students taking practical astronomy are required to take observations in the field for time, latitude and azimuth

DEPARTMENTAL EXCURSIONS TO POINTS OF INTEREST

As a part of Laboratory Instruction excursions to points of technical interest, both in Toronto and elsewhere, are arranged by the stafi. These excursions are treated as laboratory periods with the same requirements as to attendance and reports. The total transportation costs in any one year will probably not exceed Ten Dollars.

SUMMER SURVEY SESSION

Practical surveying of the Third Year will be taken previous to their opening of the fall term during the months of August and September at a the University Survey Camp situated on the shore of Guil Lake, and about five miles from the Village of Minden (for No 9 in 13th Concession of the Township of Lutterworth). The earnip may be reached by taking in the train leaving Linday for Halibutton, and getting off at Gelert. Conveyances will be on hand to meet attudents and take them to the camp Personal effects must be limited to satry pounds in weight, which must include two pairs of blankets, or their equivalent, beds and mattresses only will be provided.

Students will report at the camp on the dates shown on page 7

Students of the Fourth Year in Department 1 who are taking the Astronomy Option are required to spend two weeks at the camp, beginning about September 18th, after completing their Third Year

A field course in Geology will be given students in Department 2 the last week of the session at the camp

DRAFTING ROOMS

Drawings and briefs for same, that are required to be finished the first term of the session will not be counted unless finished in that term

No drawings or briefs for same will be counted which have not been made in the drafting rooms, and during the hours allotted to such work

THESES

In the Fourth Year each student is required to prepare a thesis on a subpleat approved by the Council The title of the thesis must be sant to the Secretary of the Faculty for approval on or before November 1st, and the completed thesis must be handed in by noon of the first day of lectures of the second term and shall become the property of the University The rules governing size, form, etc., may be obtained on application to the Secretary (See also p 101)

The thesis of each student who works upon a research problem in his fourth year must deal with the subject of investigation. In such cases the theses must be handed in not later than one week prior to the close of the annual examinations.

REGULATIONS RESPECTING STUDENTS IN ATTENDANCE

All interference on the part of any student with the personal liberty of another by arresting him, or summoning him to appear before any unauthorized tribunal of students, or otherwise subjecting him to any indignity or personal violence, is forbidden by the Caput

A student who is under suspension, or who has been expelled from a College or from the University, will not be admitted to the University buildings or grounds

The name of the University is not to be used in connection with a publication of any kind without the permission of the Caput

No student will be enrolled in any year, or be allowed to continue in attendance, whose presence is deemed by the Council to be prejudicial to the interests of the University

Students proceeding regularly to the degree are required to attend the courses of instruction and the examinations in all subjects prescribed for students of their respective standing, and no student will be permitted to remain in the University who persistently needests academic work

Unless special permission is granted by the Council, a student who, at the close of two sessions in the University, has failed to secure standing in his year, will not be permitted registration in the Faculty of Applied Science and Barineering.

The constitution of every University society or association of students in the Faculty of Applied Science and Engineering and all amendments to any such constitution must be submitted for approval to the Council of the Faculty All programmes of such societies or associations must, before publication, receive the sanction of the Council of the Faculty through the Dean Permission to mivite any person not a member of the Staff of the University to preside at or address a meeting of any society or association must be smillarly obtained

EXEMPTIONS

Applications for exemption from any of the regulations shall be made to the Council in writing and the particulars of the case fully stated

A student shall submit to Council evidence of illness or other handicap which occurs during the session immediately after its occurrence no petition for lemency on account of such incidents will be considered if received after the third day following the last day of examinations

THE GRADUATING DEPARTMENTS

The instruction in the various departments leading through the four years to the degrees of B A Sc and B Arch is designed to give the student a thorough grounding in the fundamentals of the engineering and architectural professions, and in addition a sufficient familiarity with applications of the principles to make him immediately useful uone evaduation.

With the exception of Architecture and Chemical Engineering the various courses are very similar in the first year. The succeeding years are devoted to the more particular work of the departments. In the fourth year specialization develops to the extent of various options.

The graduating courses are so designed, with many subjects common to the departments of the several years, that the student upon graduation will find himself sufficiently equipped in the various fundamentals to pursue readily his studies in branches other than the one in which he has graduated and indeed to be useful in them as well. The courses in this Faculty are not planned to make specialists, the process of specialization is more proceively deferred until after randiation.

In the teaching of the fundamentals, instruction is not confined wholly to applied science. As the future engineer is validly concerned with the development of the country, it is essential that he be instructed as well in certain fundamentals in economics, administration and business which, in conjunction with his scientific training, will enable him to develop his full value.

In some departments laboratory work in the fourth year consists of an investigation of some specific problem. In all cases the student's knowledge of the original literature and printary sources of information is extended, and he is given a very desirable and useful training in methods of research. In this way the undergraduate course intied with the graduate course (see p. 102) and with the work of the School of Engineering Research (see p. 102).

On the following pages the courses of instruction in the different departments are set forth in detail. The time devoted to lectures and practical work is indicated as accurately as possible, but is subject to modification from time to time as occasion may require

For further information concerning the opportunities available for graduates of this Faculty, reference should be made to the pamphlet issued by the Director of Extension Work and Publicity of the University entitled "Opportunities for Graduates in Applied Science"

1 DEPARTMENT OF CIVIL ENGINEERING

The course in Civil Engineering in designed to meet the needs of the students who intend to take up such work as Coediete Surveying, Railway Engineering, Municipal Engineering, Sanitary Engineering, Highway Engineering, Structural Engineering, Hydraub Engineering, Autorities to work in connection with both Engineering and administrative work in connection with both Engineering and Industrial undertakings

FIRST VEAR

| | 1 1 | Hours per week | | | | | |
|----------------------|----------|----------------|-------|-------------|-------|--|--|
| Subject | No | First Term | | Second Term | | | |
| | | Lect | Lab'y | Lect | Lab'y | | |
| Calculus | 236 | 2 | 0 | 2 | 0 | | |
| Analytical Geometry | 238 | 1 | 0 | 2 | 0 | | |
| Descriptive Geometry | 160 | 1 | 0 | 1 | 0 | | |
| Surveying | 270, 271 | 1 | 5 | 1 | 0 | | |
| Statics | 1 | 2 | 0 | 2 | 0 | | |
| Dynamics | 2 | 2 | 0 | 2 | 0 | | |
| Elementary Chemistry | 85 | 2 | 0 | 1 | 1 0 | | |
| Electricity | 135 | 2 | 0 | 2 | 1 0 | | |
| Optics | 185 | 1 | 2 | 1 | 2 | | |
| Technical English | 122 (a) | 1 | 0 | 1 | 0 | | |
| Business | 121 | 0 | 0 | i | 0 | | |
| Engineering Drawing | 166 | ō | 11 | ō | 18 | | |
| Physical Training . | 1 | 0 | 2 | 0 | 2 | | |

SECOND YEAR

| | 1 | Hours per week | | | |
|------------------------|----------|----------------|--------|------|--------|
| Subject | No. | | t Team | | d Term |
| | | Lect | Lab'y | Lect | Lab'y |
| Vacation Work | 286 | 1 | | | 1 |
| Calculus | 237 | 1 | 0 | 1 | 0 |
| Spherical Trigonometry | 239 | 1 | 0 | 0 | o |
| Elementary Astronomy . | 71 | 1 | 0 | 1 | 0 |
| Descriptive Geometry | 162 | 1 | 0 | 1 | 0 |
| Surveying . | 272, 273 | 1 | 9 | 1 | 0 |
| Dynamics . | 18_ | 1 | 1 0 | 1 | 0 |

CIVIL ENGINEERING-SECOND YEAR-CORT

| | 1 | Hours per v eek | | | | |
|------------------------|---------|-----------------|------------|------|--------|--|
| Subject | No | First | First Term | | l Term | |
| | 1 | Lect | Lab'y | Lect | Lab's | |
| Mechanics of Materials | 1 4 | 2 | 1 0 | 2 | 0 | |
| Engineering Chemistry | 93 | 1 | 0 | 0 | 0 | |
| Inorganic Chemistry A | 87A | 1 | 0 | 0 | 0 | |
| Organic Chemistry | 95 | 0 | 0 | 1 | 0 | |
| Metallurgy | 241 | 0 | 0 | 1 | . 0 | |
| Geology | 195 | 0 | 0 | 2 | 0 | |
| Mineralogy | 257,259 | 2 | 1 | 0 | 2 | |
| Hydrostatics | 186 | 0 | 0 | 1 | 1 | |
| Heat | 187 | 1 | 11 | 0 | 0 | |
| Photography | 188 | 1 | 11 | 0 | 13 | |
| Economics & Finance | 123 | 1 | 0 | 1 | 0 | |
| Chemical Laboratory | 89 | 0 | 3 | 0 | 3 | |
| Engineering Drawing | 169 | 0 | 41 | 0 | 13 | |
| Physical Training | 1 | 1 0 | 2 | 1 | 2 | |

THIRD YEAR

| | 1 | Hours per week | | | | |
|-------------------------|----------|----------------|-------|-------------|-------|--|
| Subject | No | First Term | | Second Term | | |
| | | Lect | Lab'v | Lect | Lab'v | |
| Survey Camp | 275 | 1 | | | 1 | |
| Engineering Chemistry | 102 | 1 | 0 | 1 | 0 | |
| Theory of Structures | 6 | 2 | 0 | 2 | 0 | |
| Thermodynamics | 223, 224 | 1 | 0 | 1 | 2 | |
| Hydraulies | 205, 206 | 2 | 0 | 2 | 3 | |
| Least Squares | 240 | 0 | 0 | 1 | 0 | |
| Practical Astronomy and | | | | / | Į. | |
| Geodesy | 72,73 | 2 | 2 | 2 | 0 | |
| Descriptive Geometry | 164 | 1 | 0 | 0 | 0 | |
| Surveying and Levelling | 274 | 1 | 0 | 1 | 1 0 | |
| Electricity | 143, 144 | 1 | 3 | 1 | 0 | |
| Stress Graphics | 10 | 1 | 0 | 1 | 0 | |
| Cements and Concrete | 11 | 0 | 0 | 1 | 0 | |
| Engineering Geology | 197 | 1 | 0 | 1 | 0 | |
| Commercial Law | 124 | 1 | 0 | 1 | 0 | |
| Public Speaking . | 133 | 1 | 0 | 0 | 0 | |
| Mechanics of Materials | 1 | | 1 | | 1 | |
| Laboratory | 9 | 0 | 3 | 0 | 0 | |
| Engineering Drawing | 173 | 0 | 12 | 0 | 15 | |

CIVIL ENGINEERING-FOURTH YEAR

(a) Astronomy Option

| 1 | No | Hours per week | | | | |
|--------------------------|--------|----------------|------------|------|-------|--|
| Subject | | First | First Term | | Term | |
| | | Lect | Lab'y | Lect | Lab'y | |
| Survey Camp | 275 | 1 | 1 | | [| |
| Thesis | 285 | 0 | 3 | 0 | 0 | |
| Engineering Economics | 125 | 0 | 0 | 1 | 0 | |
| Engineering Law | 126 | 1 | 0 | . 0 | 0 | |
| Contracts and Specifica- | | | 1 1 | | } | |
| tions | 127 | 0 | 0 | 1 | 0 | |
| Management | 128 | 1 | 0 | 0 | 0 | |
| Astronomy | 74, 76 | 2 | 23 | 2 | 0 | |
| Geodesy , | 75, 76 | 2 | 0 | 2 | 23 | |
| Photographic Surveying | 191 | 1 1 | 1 2 | 0 | 1 0 | |

FOURTH YEAR

| 1 | | 1 | Hours per week | | | | |
|--|-----|-------|----------------|--------|--------|--|--|
| Subject | No | First | Term | Second | 1 Term | | |
| | | Lect | Lab'y | Lect | Lab'y | | |
| Thesis , | 285 | 1 0 | 3 | 0 | 0 | | |
| Engineering Economics | 125 | 0 | 0 | 1 | 0 | | |
| Engineering Law | 126 | 1 | 0 | 0 | 0 | | |
| Contracts and Specifica- | | | 1 | | i | | |
| tions | 127 | 0 | 0 | 1 | 0 | | |
| Management | 128 | 1 | 0 | 0 | 0 | | |
| Reinforced Concrete | 15 | 1 | 0 | 1 | 0 | | |
| Foundations | 14 | 1 | 0 | 1 | 0 | | |
| Hydraulics | 211 | 1 | 3 | 0 | 0 | | |
| Structural Design. | 17 | 1 | 0 | 0 | 0 | | |
| Structural Design Draw- | | | | | | | |
| ing | 179 | 0 | 0 | 0 | 5 | | |
| Miscellaneous Structures | 19 | 0 | 0 | 1 | 0 | | |
| Hygiene and Bacteri- | | 1 | | | 1 | | |
| ology | 82 | 1 | 0 | 1 | 6 | | |
| Biology | 81 | 0 | 5 | o | 0 | | |
| Sanitary Chemistry | 117 | 1 | 6 | 0 | | | |
| Sanitary Engineering | 280 | 1 | 8 | 1 | 6 | | |
| Highway Engineering | 281 | 1 1 | 8 | l î | 3 | | |
| Municipal Seminar (in- cluding Town Plan- | - | 1 | | 1 | | | |
| ning) Municipal Administra- | 282 | 0 | 3 | 0 | 8 | | |
| tion (including Civics) | 182 | 1 | 0 | 1 | 1 0 | | |

CIVIL ENGINEERING-FOURTH YEAR-(c) Structural Engineering Option

| 1 | No | Hours per week | | | | |
|--------------------------|--------|----------------|------------|------|-------|--|
| Subject | | First | First Term | | Term | |
| | | Lect | Lab'y | Lect | Lab'y | |
| Thesis . | 285 | 0 | 3 | 0 | 0 | |
| Engineering Economics | 125 | 0 | 0 | 1 | 0 | |
| Engineering Law | 128 | 1 | 0 | 0 | 0 | |
| Contracts and Specifica- | | 1 | | | | |
| tions | 127 | 0 | 0 | 1 | 0 | |
| Management | 128 | 1 | 0 | 0 | 0 | |
| Reinforced Concrete | 15 | 1 | 0 | 1 | 0 | |
| Foundations | 14 | 1 | 0 | 1 | 0 | |
| Theory of Structures | 12 | 2 | 0 | 2 | 0 | |
| Physical Metallurgy | 252 | 1 | 0 | 1 | 0 | |
| Structural Design | 17, 18 | 2 | 0 | 1 | 0 | |
| Miscellaneous Structures | 19 | 0 | 0 | 1 | 0 | |
| Mechanics of Materials | | 1 | 1 | | 1 | |
| Laboratory | 13 | 0 | 3 | 0 | 6 | |
| Structural Design Draw- | | | 1 | | | |
| ing | 178 | 0 | 22 | 0 | 22 | |

FOURTH YEAR-(d) Hydraulic Engineering Option

| | 1 | Hours per week | | | | |
|--------------------------|---------------|----------------|-------|-------------|-------|--|
| Subject | No | First | Term | Second Term | | |
| | i | Lect | Lab'y | Lect | Lab'y | |
| Thesis | 285 | 0 | 3 | 0 | 0 | |
| Engineering Economics | 125 | 0 | 0 | 1 | 0 | |
| Engineering Law | 126 | 1 | 0 | 0 | 0 | |
| Contracts and Specifica- | | | | | 1 | |
| tions | 127 | 0 | 0 | 1 | 0 | |
| Management | 128 | 1 | 0 | 0 | 0 | |
| Reinforced Concrete | 15 | 1 | 0 | 1 | 0 | |
| Foundations | 14 | 1 | 0 | 1 | 0 | |
| Theory of Structures | 12 | 2 | 0 | 2 | 0 | |
| Hydraulics | 207, 208, 209 | 3 | 10 | 3 | 10 | |
| Physical Metallurgy | 252 | 1 | 0 | 1 | 0 | |
| Structural Design | 17, 18 | 2 | 0 | 1 | 0 | |
| Miscellaneous Structures | 19 | 0 | 0 | 1 | 0 | |
| Electrical Laboratory | 144 | 0 | 0 | 0 | 8 | |
| Mechanics of Materials | 1 | 1 | | | | |
| Laboratory . | 13 | 0 | 6 | 0 | 8 | |
| Structural Design Draw- | | | 1 | | | |
| ing . | 179 | 0 | 4 | 0 | 8 | |

CIVIL ENGINEERING—FOURTH YEAR

(e) Railway Engineering Option

| ı | | Hours per week | | | | |
|--------------------------|--------|----------------|------------|------|--------|--|
| Subject | No | First | First Term | | d Term | |
| | | Lect | Lab'y | Lect | Lab'y | |
| Thesis . | 285 | 1 0 | 3 | 0 | 0 | |
| Engineering Economics | 125 | 0 | 0 | 1 | 0 | |
| Engineering Law | 126 | 1 | 0 | 0 | 0 | |
| Contracts and Specifica- | | 1 | | | | |
| tions | 127 | 0 | 0 | 1 | 0 | |
| Management . | 128 | 1 | 0 | 0 | 0 | |
| Reinforced Concrete | 15 | 1 | 0 | 1 | 0 | |
| Foundations | 14 | 1 | 0 | 1 | 0 | |
| Theory of Structures | 12 | 2 | 0 | 2 | 0 | |
| Hydraulics | 211 | 1 | 8 | 0 | 0 | |
| Special Geology | 204 | 0 | 0 | 1 | 13 | |
| Physical Metallurgy | 252 | j 1 | 0 | 1 | 0 | |
| Electrical Laboratory | 144 | 0 | 0 | 0 | 3 | |
| Motive Power | 225 | 1 | 0 | 1 | 0 | |
| Railway and Miscellane- | | 1 | | | | |
| ous Structures | 20, 19 | 1 | 0 | 1 | 0 | |
| Railway Economics . | 131 | 2 | 0 | 2 | 0 | |
| Railway Location and | | | | | 1 | |
| Design | 276 | 1 | 8 | 1 | 6 | |
| Mechanics of Materials | | | | | 1 | |
| Laboratory | 13 | 0 | 8 | 0 | 6 | |
| Structural Design Draw- | | | | | | |
| ing | 179 | 0 | 6 | 0 | 6 | |

2 DEPARTMENT OF MINING ENGINEERING

The course in Mining Engineering, which originated in 1878 as a course in Assaying and Mining Geology, is intended to serve as a nieliminary training for those who expect to practice in some branch of Mining Engineering, such as exploration of mining areas and primary development, mine survey ing, mining processes into ving evil, mechanical, and electric work of underground workings, mining machinery and operation, milling and treatment of ores, assaying and other forms of analysis and research, and administrative work in connection with both Engineering and Industrial underlathings

FIRST YEAR

| | | Hours per week | | | | |
|----------------------|----------|----------------|-------|-------|--------|--|
| Subject | No | First | Term | Secon | d Term | |
| | | Lect | Lab'y | Lect | Lab'y | |
| Calculus | 236 | 2 | 0 | 2 | 0 | |
| Analytical Geometry | 238 | 1 | 0 | 2 | 0 | |
| Descriptive Geometry | 160 | 1 | 0 | 1 | 0 | |
| Surveying | 270, 271 | 1 | 5 | 1 | 0 | |
| Statics | 1 | 2 | 0 | 2 | 0 | |
| Dynamics | 2 | 2 2 | 0 | 2 | 0 | |
| Elementary Chemistry | 85 | | 0 | 1 | 0 | |
| Electricity | 135 | 2 | 0 | 2 | 0 | |
| Mineralogy | 255, 258 | 2 | 1 | 0 | 8 | |
| Technical English | 122 (a) | 1 | 0 | 1 | 0 | |
| Business | 121 | 0 | 0 | 1 | 0 | |
| Mining Laboratory | 50 | 0 | 0 | 0 | 3 | |
| Engineering Drawing | 166 | 0 | 11 | 0 | 14 | |
| Physical Training | ł | ١ ٥ | 2 | 1 0 | 2 | |

MINING ENGINEERING-SECOND YEAR

| | 1 | Hours per week | | | | |
|------------------------|----------|----------------|-------|-------------|-------|--|
| Subject | No | First | Term | Second Team | | |
| | | Lect | Lab'y | Lect | Lab'y | |
| Vacation Notes | 286 | | | | 1 | |
| Descriptive Geometry | 162 | 1 | 0 | 1 | 0 | |
| Surveying | 272, 273 | 1 | 6 | 1 | 0 | |
| Dynamics | 3 | 1 | 0 | 1 | 0 | |
| Mechanics of Materials | 4 | 2 | 0 | 2 | 0 | |
| Inorganic Chemistry A | 87A | 1 | 0 | 0 | 0 | |
| Inorganic Chemistry B | 87B | 0 | 0 | 1 | 0 | |
| Organic Chemistry | 95 | 0 | 0 | 1 | 0 | |
| Metallurgy | 241 | 0 | 0 | 1 | 0 | |
| Geology | 195 | 0 | 0 | 2 | 0 | |
| Mineralogy | 260, 261 | 1 | 2 | 1 | 2 | |
| Mining . | 51 | 1 | 8 | 0 | 0 | |
| Theory of Measurements | 65 | 1 1 | 0 | 0 | 0 | |
| Steam Engines | 216 | 0 | 0 | 1 | 0 | |
| Theory of Mechanism | 280 | 2 | 0 | 2 | 0 | |
| Economics and Finance | 123 | l i | 0 | 1 | 0 | |
| Chemical Laboratory | 89, 90 | 0 | 6 | 0 | 8 | |
| Engineering Drawing | 169 | 0 | 3 | 0 | 12 | |
| Physical Training. | 1 | 0 | 2 | 0 | 2 | |

THIRD YEAR

| | ı | Hours per week | | | |
|-------------------------|----------|----------------|-------|-------------|-------|
| Subject | No | First | Term | Second Term | |
| | | Lect | Lab'y | Lect | Lab'y |
| Vacation Letters | 68 | 1 | 1 | | |
| Survey Camp | 275 | | 1 | | |
| Geological Field Work | 193 | | i | | |
| Engineering Chemistry | 102 | 1 | 0 | 1 | 0 |
| Theory of Structures | 7 | 2 2 | 0 | 0 | 0 |
| Hydraulics | 205 | 2 | 0 | 2 | 0 |
| Analytical Chemistry | 88 | 1 | 0 | 1 | 0 |
| Electricity | 143 | 1 | 0 | 1 | 0 |
| Assaying | 45, 46 | 1 | 3 | 0 | 3 |
| Economic Geology | 202, 203 | 1 | 0 | 3 | 2 |
| Dynamic and Structural | | 1 | | ļ | |
| Geology | 198 | 1 | 0. | 0 | 0 |
| Ore Dressing | 58, 59 | 1 | 3 | 1 | 8 |
| Physics of Ore Dressing | 64 | 1 | 0 | 1 | 0 |
| Mining , | 54 | 1 | 0 | 1 | 0 |
| Petrography | 262 | 1 | 0 | 1 | 0 |
| Metallurgy | 243 | 1 | 0 | 1 | 0 |

MINING ENGINEERING-THIRD YEAR-CORL

| | | Hours per week | | | | |
|------------------------|-----|----------------|-------|--------|-------|--|
| Subject | No | First | Term | Second | Term | |
| | | Lect | Lab'y | Lect | Lab'y | |
| Physical Metallurgy | 244 | 0 | 0 | 1 2 | 0 | |
| Commercial Law | 124 | 1 | 0 | 1 | 0 | |
| Petrography Laboratory | 263 | 0 | 2 | 0 | 2 | |
| Introductory Research | 66 | 0 | 0 | 0 | 8 | |
| Chemical Laboratory | 99 | 0 | 3 | 0 | 6 | |
| Mechanics of Materials | | 1 | { | | 1 | |
| Laboratory | 9 | 0 | 0 | 0 | 3 | |
| Engineering Drawing | 174 | 1 0 | 9 | 0 | 1 0 | |

FOURTE YEAR

| | 1 | Hours per week | | | | |
|------------------------|----------|----------------|-------|--------|--------|--|
| Subject | No | First | Term | Secon | d Term | |
| | | Lect | Lab'y | Lect | Lab'y | |
| Vacation Letters | 68 | | 1 | | | |
| Thesis | 67 | 0 | 7 | 0 | 10 | |
| Mine Cost Keeping and | | | 1 | | | |
| Management | 56 | 1 | 0 | 1 | 0 | |
| Thermodynamics . | 223 | 1 | 0 | 1 | 0 | |
| Assaying | 47, 48 | 0 | 0 | 1 | 8 | |
| Electrochemistry | 107, 108 | 2 | 3 | 0 | 0 | |
| Geology, Pleistocene | | | | | 1 | |
| and Physiographic | 194, 201 | 1 | 1 | 1 | 0 | |
| Geology, Precambrian | 199 | 2 | 0 | 0 | 0 | |
| Geology, Mining | 200 | 0 | 0 | 2 1 | 0 | |
| Metallurgy | 247 | 1 | 0 | 1 | 6 | |
| Mining . | 55 | 1 | 0 | 1 | 0 | |
| Ore Dressing . | 60, 61 | 1 | - 6 | 1 | 0 | |
| Business . | | 1 | 0 | 1 | 0 | |
| Metallography . | 251 | 0 | 0 | 0 | 3 | |
| (Electrical Lab'y | 144 | 0 | 3 | 0 | 0 | |
| Power Hydraulics Lab'y | 210 | 0 | 0 | 0 | 3 | |
| Thermodynamics | 1 | | | l | ł | |
| (Lab'y | 224 | 0 | 3 | , 0 | 0 | |

3 DEPARTMENT OF MECHANICAL ENGINEERING

The course in Mechanical Engineering is intended to serve as a picliminary training for those who intend to take up work connected with the design, manufacture, installation, or operation of mechanicy for the use of power as generated by steam, gas oil, and water, and machinery for the heating which the production, transportation, and handling of material, and mitchiosh for the production, compressing of air, pumping of water, and all problems of a mechanical nature, and administrative work in connection with both Engineering and Industrial undertakings.

FIDST VEAD

| | ł | Hours per week | | | |
|--------------------------|----------|----------------|-------|--------|-------|
| Subject | No | Fust | Term | Second | Term |
| | | Lect | Lab'y | Lect | Lab'y |
| Calculus | 236 | 2 | 0 | 2 | 1 0 |
| Analytical Geometry | 238 | 1 | 0 | 2 | 0 |
| Descriptive Geometry | 160 | 1 | 0 | 1 | 0 |
| Surveying . | 270, 271 | 1 | 5 | 1 | 0 |
| Statics | 1 | 2 | 0 | 2 | 0 |
| Dynamics | 2 | 2 | 0 | 2 | 0 |
| Elementary Chemistry | 85 | 2 | 0 | 1 | 0 |
| Electricity | 135 | 2 | 0 | 2 | 0 |
| Illuminating Engineering | 185 | 1 | 2 | 1 | 2 |
| Technical English | 122 (a) | 1 | 0 | 1 | 0 |
| Business | 121 | 0 | 0 | 1 | 0 |
| Engineering Drawing | 166 | 0 | 11 | 0 | 18 |
| Physical Training | | 0 | 2 | 0 | 2 |

MECHANICAL ENGINEERING-SECOND YEAR

| | 1 | Hours per week | | | |
|------------------------|----------|----------------|-------|-------|--------|
| Subject | No | First | Term | Secon | d Term |
| | 1 | Lect | Lab'y | Lect | Lab'y |
| Vacation Work | 286 | 0 | 0 | 0 | 0 |
| Calculus | 237 | 1 | 0 | 1 | 0 |
| Descriptive Geometry | 162 | 1 | 0 | 1 | 0 |
| Dynamics | 8 | 1 | 0 | 1 | 0 |
| Mechanics of Materials | 4 | 2 | 0 | 2 | 0 |
| Engineering Chemistry | 93 | 1 | 0 | 0 | 0 |
| Inorganic Chemistry A | 87A | 1 | 0 | 0 | 0 |
| Organic Chemistry | 95 | 0 | 0 | 1 | 0 |
| Metallurgy | 241 | 0 | 0 | 1 | 0 |
| Hydrostatics | 186 | 0 | 0 | 1 | 13 |
| Elementary Machine De- | l . | | 1 | V | 1 |
| sign | 232 | 1 | 0 | 1 | 0 |
| Electricity | 136, 137 | 2 | 3 | 2 | 8 |
| Steam Engines | 216 | 1 | 0 | 1 | 0 |
| Theory of Mechanism | 230 | 2 | 11 | 2 | 11 |
| Economics and Finance | 123 | 1 | 0 | 1 | 0 |
| Chemical Laboratory | 89 | 0 | 3 | 0 | 3 |
| Engineering Drawing | 170 | 0 | 13 | 0 | 11 |
| Physical Training | | 0 | 2 | 0 | 2 |

THIRD YEAR

| | | Hours per week | | | | |
|------------------------|----------|----------------|-------|--------|--------|--|
| Subject | No | First | Term | Second | l Term | |
| | | Lect | Lab'y | Lect | Lab'y | |
| Engineering Chemistry | 102 | 1 | 0 | 1 | 0 | |
| Theory of Structures | 7 | 2 | 0 | 0 | 0 | |
| Thermodynamics | 217, 219 | 2 | 3 | 2 | 8 | |
| Hydraulics | 205, 206 | 2 | 0 | 2 | 3 | |
| Heat Engines | 218 | 2 | 0 | 2 | 0 | |
| Mechanics of Machinery | 231 | 1 | 0 | 1 | 0 | |
| Machine Design | 233 | 2 | 4 | 2 | 10 | |
| Magnetism Electricity | 138, 140 | 2 | 3 | 0 | 0 | |
| Alternating Current | 139, 140 | 1 | 0 | 1 | 3 | |
| Physical Metallurgy | 244 | 0 | 0 | 2 | 0 | |
| Compound Stress | 10 (a) | 1 | 0 | 0 | 0 | |
| Commercial Law | 124 | 1 | 0 | 1 | 0 | |
| Mechanics of Materials | l | 1 | l | 1 | 1 | |
| Laboratory | 9 | 0 | 0 | 0 | 3 | |
| Engineering Drawing | 177 | 0 | 9 | 0 | 0 | |

MECHANICAL ENGINEERING-FOURTH YEAR

(a) Power Plant Option

| | 1 | 1 | Hours p | er week | |
|------------------------|---------------|------|---------|---------|--------|
| Subject | No | Firs | t Term | Secon | d Term |
| |] | Lect | Lab'y | Lect | Lab'v |
| Thesis | 285 | 0 | 0 | 0 | 1 0 |
| Engineering Economics | 125 | 0 | 0 | i | 0 |
| Structural Design | 17, 18, 180 | 2 | 3 | 0 | 3 |
| Electrical Laboratory | 144 | 0 | 0 | o | l a |
| Heat Treatment of Iron | Ì |) |) 1 | | - |
| and Steel | 253 | 1 | 0 | 1 | 0 |
| Machine Design | 235 | 2 | 7 | 1 | 6 |
| Thermodynamics and | | | 1 1 | | |
| Heat Engines | 220, 221, 222 | 3 | 9 1 | 3 | 0 |
| Hydraulics | 207, 208, 209 | 3 | 181 | 3 | 8 |
| | | | | | _ |

FOURTH YEAR

(b) Water Power Option

| | 1 | L | Hours p | er week | |
|---|---|---------------------------------|----------------------------|------------------|----------------------------|
| Subject | No | First | Term | Second | Term |
| | 1 | Lect | Lab'y | Lect | Lab'v |
| Thesis Engineering Economics Structural Design Electrical Laboratory Heat Treatment of Iron and Steel Machine Design Hydraulics | 285 125 17, 18, 180 144 253 235 207, 208, 209 | 0 0 2 0 1 2 3 | 0 0 3 0 0 5 | 0 1 0 0 | 0 0 3 3 0 7 |
| Mechanics of Materials Reinforced Concrete Foundations Reinforced Concrete Design | 13 15 14 181 | 0 1 1 1 | 6 0 0 | 0 1 1 | 3 0 |

MECHANICAL ENGINEERING—FOURTH YEAR

(c) Industrial Option

| | | Hours per week | | | |
|---------------|---|--|--|-------|--|
| No | First | Term | Second | Term | |
| 1 | Lect | Lab'v | Lect | Lab'y | |
| 285 | 0 | 0 | 0 | 0 | |
| 125 | 0 | 0 | 1 | 0 | |
| 17, 18, 180 | 2 | 3 | 0 | 3 | |
| 144 | 0 | 0 | 0 | 3 | |
| | | | | | |
| 253 | 1 | 0 | 1 | 0 | |
| | | i | | | |
| 226, 227, 228 | 1 | | 1 | 3 | |
| 235 | 2 | 6 | 1 | 8 | |
| | 1 | 1 | 1 | | |
| 220, 221, 222 | 3 | 6 | 3 | 12 | |
| 209, 212 | 1 | 9 | 1 | 0 | |
| 130 | 1 | 0 | 1 | 0 | |
| | 125 17, 18, 180 144 253 226, 227, 228 235 220, 221, 222 209, 212 | 285 0 125 0 17, 18, 180 2 144 0 253 1 226, 227, 228 1 235 2 220, 221, 222 3 200, 212 1 | 285 0 0 0 17, 18, 180 2 3 144 0 0 226, 227, 228 1 3 236 2 6 220, 221, 322 3 6 200, 212 1 9 | 28.6 | |

4 DEPARTMENT OF ARCHITECTURE

The instruction in this department is arranged mainly to lay a boad foundation for the subsequent professional life of its graduates. The curriculum is based on the beheft that an architect should have an education in liberal studies, that he should understand and appreciate tother arts in their relation to architecture, and that his training in design should teach him to regard building construction as an expression of his art rather than as an end in itself. With this object in wew, the course in Architecture, which was originally derived from the Engineering courses, has been gradually broadened out to include an elementary training in the sister arts of painting and scultpure, and also courses in French and English

FIRST YEAR

| | 1 | Hours per week | | | |
|--------------------------|--------|----------------|-------|--------|-------|
| Subject | No | First | Term | Second | Term |
| | 1 | Lect | Lab'y | Lect | Lab'y |
| Calculus | 236 | 2 | 0 | 2 | 0 |
| Analytical Geometry | 238 | 1 | 0 | 2 | 0 |
| Descriptive Geometry | 161 | 1 | 0 | 1 | 0 |
| Statics | 1 | 2 | 0 | 2 | 0 |
| Building Measurements | 37 | 1 | 7 | 1 | 0 |
| Elements of Architecture | 28 | 1 | 0 | 1 | 0 |
| History of Architecture | 25 | 1 | 3 | 1 | 0 |
| Technical English | 122(a) | 1 | 0 | 1 | 0 |
| French | 266 | 2 | 0 | 2 | 0 |
| Modelling | 36 | l o | 2 | 0 | 2 |
| Freehand Drawing | 35 | 0 | 3 | 0 | 2 |
| Architectural Drawing | 167 | 0 | 9 | 0 | 18 |
| Physical Training | | 0 | 2 | 0 | 2 |

ARCHITECTURE-SECOND YEAR

| 1 | | Hours per week | | | | |
|---|--------|----------------|-------|-------------|-------|--|
| Subject | No | First | Term | Second Term | | |
| | | Lect | Lab'y | Lect | Lab'y | |
| Vacation Work | 285 | 1 | | | 1 | |
| Descriptive Geometry | 163 | 1 | 0 | 1 | 0 | |
| Mechanics of Materials | 5 | 2 | 0 | 2 | 0 | |
| Architectural Design | 31 | 1 | 0 | 1 | 0 | |
| History of Architecture | 26 | 1 | 0 | 1 | 0 | |
| History of Ornament | 29 | 1 | 0 | 1 | 0 | |
| Illumination | 189 | 1 | 11 | 1 | 13 | |
| Economics and Finance | 123 | 1 | 0 | 1 | 0 | |
| Technical English | 122(b) | 2 | 0 | 2 | 0 | |
| French | 266 | 1 | 0 | 1 | 0 | |
| Modelling | 36a | 0 | 2 3 | 0 | 2 | |
| Freehand Drawing | 35a | 0 | 3 | 0 | 8 | |
| Architectural Design Architectural Drawing | 171 | 0 | 17 | 0 | 17 | |
| Physical Training | | 0 | 2 | 0 | 2 | |

THIRD YEAR

| 1 | | Hours per week | | | |
|--|-----|----------------|--------|-------------|-------|
| Subject | No | Firs | t Term | Second Term | |
| į | | Lect | Lab'y | Lect | Lab'y |
| Structural Design | 16 | 1 2 | 0 | 2 | 0 |
| Acoustics | 190 | 1 | 13 | 1 | 0 |
| Building Materials | 38 | 2 | 0 | 2 | 0 |
| History of Architecture | 27 | 1 | 0 | 1 | 0 |
| History of Fine Art | 30 | 1 | 0 | 1 | 0 |
| Architectural Design | 32 | 1 | 0 | 1 | 0 |
| Commercial Law | 124 | 1 | 0 | 1 | 0 |
| French | 266 | 1 | 0 | 1 | Ιo |
| Modelling | 36b | 0 | 2 | 0 | 2 |
| Water Colour Painting | 356 | 0 | 3 | 0 | 8 |
| Architectural Design Architectural Drawing | 175 | 0 | 18 | 0 | 18 |

ARCHITECTURE-FOURTH YEAR

| | | 1 | Hours per week | | | |
|--------------------------|--------|-------|----------------|-------|--------|--|
| Subject | No | First | Term | Secon | d Term | |
| | 1 | Lect | Lab'y | Lect | Lab'y | |
| Thesis | 286 | 0 | 3 | 0 | 1 3 | |
| Contracts and Specifica- | | | 1 | | l | |
| tions | 127 | 0 | 0 | 1 | 0 | |
| Structural Design | 16 | 1 | 8 | 1 | l s | |
| Heating and Ventilating | 40 | 1 | 0 | 1 | 0 | |
| Sanitary Science | 39 | 1 | 0 | 1 | 0 | |
| Drawing from Life | 85c | 0 | 3 1 | 0 | 3 | |
| Modelling from Life | 36c | 0 | 2 | 0 | 2 | |
| AND ONE OF | | | | | | |
| Architectural Design | 88 | 2 | 24 | 2 | 22 | |
| ArchitecturalEngineer- | | | | | | |
| ing | 34, 16 | 4 | 22 | 3 | 20 | |

6 DEPARTMENT OF CHEMICAL ENGINEERING

The course is designed to give the student a thorough training in Chemistry and its application to industry, as well as a general knowledge of the elements of themodynamics, hydraulics, machine design, electricity and metallurgy. A preliminary training of this nature with subsequent practical experience will enable him to undertake the design and construction and also the operation and management of the plant required in such branches of chemical industry as are concerned with the production of chemical and pharmaceutical products, rubber goods, leather and give, soap, meat products, dood-tuffs, old of all kinds, sugar, pulp and paper, illuminating gas, coal tar and wood distillates, pants and varnathes, explosives, dyes, glass, portland cement, metals and their alloys, electrochemical products, fermentation products, printers' misk, fertilizers, ceramic and building materials, etc

FIRST YEAR

| | No | Hours per week | | | | | |
|-----------------------|--------|----------------|-------|-------------|-------|--|--|
| Subject | | First | Term | Second Terr | | | |
| | 1 | Lect | Lab'y | Lect | Lab'y | | |
| Calculus | 236 | 2 | 0 | 2 | 0 | | |
| Analytical Geometry | 238 | 1 | 0 | 2 | 0 | | |
| Descriptive Geometry | 160 | 1 | 0 | 1 | 0 | | |
| Statics | 1 | 2 | 0 | 2 | 0 | | |
| Dynamics | 2 | 2 | 0 | 2 | 0 | | |
| Elementary Chemistry | 85 | 2 | 0 | 1 | 0 | | |
| Electricity | 135 | 2 | 0 | 2 | 0 | | |
| Optics | 185 | 1 | 2 | 1 | 2 | | |
| Technical English | 122(a) | 1 | 0 | 1 | 0 | | |
| German | 267 | 1 | 0 | 1 | 0 | | |
| Business | 121 | 0 | 0 | 1 | 0 | | |
| Mineralogy Laboratory | 256 | 0 | 0 | 0 | 3 | | |
| Biological Laboratory | 80 | 0 | 3 | 0 | 3 | | |
| Chemical Laboratory | 86 | 0 | 10 | 0 | 10 | | |
| Engineering Drawing | 168 | 0 | 4 | 0 | 4 | | |
| Physical Training | | 0 | 2 | 0 | 2 | | |

CHEMICAL ENGINEERING-SECOND YEAR

| | 1 | Hours per week | | | | |
|------------------------|----------|----------------|--------|-------------------|--------|--|
| Subject | No | Fire | t Term | Second | l Term | |
| • | | Lect | Lab'y | Second Lect 1 | Lab'y | |
| Vacation Work | 286 | | 1 | 1 | 1 | |
| Calculus | 237 | 1 | 0 | | 0 | |
| Mechanics of Materials | 4 | 2 | 0 | | 0 | |
| Engineering Chemistry | 93 | 1 | 0 | | 0 | |
| Organic Chemistry | 96 | 2 | 0 | | 0 | |
| Metallurgy | 241 | 0 | 0 | 1 | 0 | |
| Hydrostatics | 186 | 0 | 0 | 1 | 1 | |
| Elementary Machine De- | | 1 | | | | |
| 51gn | 232 | 1 | 0 | | 0 | |
| Electricity | 136, 137 | 2 | 3 | | 3 | |
| Industrial Chemistry | 94 | 1 | 0 | | 0 | |
| Physical Chemistry | 98 | 2 | 0 | | 0 | |
| Inorganic Chemistry A | 87A | 1 | 0 | 0 | 0 | |
| Inorganic Chemistry B | 87B | 0 | 0 | 1 | 0 | |
| German | 267 | 1 | 0 | | 0 | |
| Economics and Finance | 123 | 1 | 0 | 1 | 0 | |
| Chemical Laboratory | 92 | 0 | 10 | 0 | 12 | |
| Engineering Drawing | 172 | 0 | 7 | 0 | 3 | |
| Physical Training | | 0 | 2 | 0 | 2 | |

Trens Vois

| | 1 | Hours per week | | | | | |
|-----------------------|----------|----------------|-------|-------|--------|--|--|
| Subject | No | First | Term | Secon | d Term | | |
| · | 1 | Lect | Lab'y | Lect | Lab'y | | |
| Engineering Chemistry | 102 | 1 | 0 | 1 | 0 | | |
| Theory of Structures | 7 | 2 | 0 | 0 | 0 | | |
| Thermodynamics | 217, 224 | 2 | 2 | 2 | 0 | | |
| Hydraulics | 205, 206 | 2 | 0 | 2 | 1 | | |
| Metallurgy | 243 | 1 | 0 | 1 | 0 | | |
| Physical Metallurgy | 244 | 0 | 0 | 2 | 0 | | |
| Assaying | 49 | 0 | 0 | 0 | 8 | | |
| Analytical Chemistry | 88 | 1 | 0 | 1 | 0 | | |
| Electrochemistry | 107, 108 | 2 | 3 | 0 | 0 | | |
| Industrial Chemistry | 103 | 1 | 0 | 1 | 0 | | |
| Organic Chemistry | 106 | 2 | 0 | 2 | 0 | | |
| Chemical Plant | 104 | 1 | 0 | 1 | 0 | | |
| German | 267 | 1 | 0 | 1 | 0 | | |
| Commercial Law . | 124 | 1 | 0 | 1 | 0 | | |
| Power | 144, 206 | 0 | 3 | 0 | 3 | | |
| Chemical Laboratory | 100 | 0 | 7 | 0 | 13 | | |
| Engineering Drawing | . 177 | 0 | 6 | 0 | 0 | | |
| Electrical Laboratory | 144 | 0 | 0 | 0 | 8 | | |

CHEMICAL ENGINEERING-FOURTH YEAR

| Subject | 1 | Hours per week | | | | |
|---------------------------------|----------|----------------|------------|------|-------------|--|
| | No | First | First Term | | Second Term | |
| | | Lect | Lab'y | Lect | Lab'y | |
| Thesis | 285 | | | | | |
| Industrial Management | 130 | 1 | 0 | 1 | 0 | |
| Machine Design | 234 | 1 | 0 | 1 | 3 | |
| German | 267 | 1 | 0 | 1 | 0 | |
| or Spanish | 268 | 1 | 0 | 1 | 0 | |
| Inorganic Chemistry | 109 | 2 | 0 | 2 | 0 | |
| Organic Chemistry | 110 | 1 | 0 | 1 | 0 | |
| AND ONE OF | | | 1 1 | | | |
| Electrochemistry | 114, 115 | 2 | | 2 | | |
| Industrial Chemistry | 112, 113 | 1 | | 1 | | |
| Sanitary and Forensic | | | | | | |
| Chemistry and Bac- teriology | 116 | 1 | | 2 | | |
| Metallurgy | 247 | 1 | | 1 | * | |
| Physical Metallurgy | 250 | 1 | | 1 | | |
| Zymology | 283 | * | | * | | |

^{*}All time not otherwise allotted must be spent in the various laboratories in the proportions assigned by the Department

7 DEPARTMENT OF ELECTRICAL ENGINEERING

The course in electrical engineering is designed for those who are looking forward to notive in connection with the design, samifacture, installation, or operation of electrical machinery and equipment for the generation, transmission, and utilization of power, for domestic and industrial purposes including its many applications to problems of intercommunication in connection with railway, telephone, telegraph, or radio equipment, to work in connection with electrochemical processes, and to administrative work in connection with hotel Empireering and Industrial industrial industrials industrials and control of the control of the

FIRST VEAR

| | 1 | Hours per week | | | | |
|--------------------------|----------|----------------|-------|-------|--------|--|
| Subject | No | First | Term | Secon | d Term | |
| | | Lect | Lab'y | Lect | Lab'y | |
| Calculus . | 236 | 2 | 0 | 2 | 0 | |
| Analytical Geometry | 238 | 1 | 0 | 2 | 0 | |
| Descriptive Geometry | 160 | 1 | 0 | 1 | 0 | |
| Surveying | 270, 271 | 1 | 5 | 1 | 1 0 | |
| Statics | 1 | 2 | 0 | 2 | 0 | |
| Dynamics | 2 | 2 | 0 | 2 | 0 | |
| Elementary Chemistry | 85 | 2 | 0 | 1 | 1 0 | |
| Electricity | 135 | 2 | 0 | 2 | 0 | |
| Illuminating Engineering | 185 | 1 | 2 | 1 | 2 | |
| Technical English | 122(a) | 1 | 0 | 1 | 0 | |
| Business | 121 | 0 | 0 | ī | 0 | |
| Engineering Drawing | 166 | 0 | 11 | Ιō | 18 | |
| Physical Training | | 0 | 2 | 0 | 0 | |

ELECTRICAL ENGINEERING-SECOND YEAR

| Subject | 1 | Hours per week | | | | |
|------------------------|----------|----------------|-------|-------------|-------|--|
| | No | First | Term | Second Term | | |
| | | Lect | Lab'y | Lect | Lab'y | |
| Vacation Work | 286 | | 1 | | 1 | |
| Calculus | 237 | 1 | 0 | 1 | 0 | |
| Descriptive Geometry | 162 | 1 | 0 | 1 | 0 | |
| Dynamics | 3 | 1 | 0 | 1 | 0 | |
| Mechanics of Materials | 4 | 2 | 0 | 2 | 0 | |
| Engineering Chemistry | 93 | 1 | 0 | 0 | 0 | |
| Organic Chemistry | 95 | 0 | 0 | 1 | 0 | |
| Inorganic Chemistry A | 87A | 1 | 0 | 0 | 0 | |
| Hydrostatics | 186 | 0 | 0 | 1 | 11 | |
| Elementary Machine De- | 1 | | | | | |
| aign | 232 | 1 | 0 | 1 | 0 | |
| Electricity | 136, 137 | 2 | 3 | 2 | 8 | |
| Steam Engines | 216 | 1 | 0 | 1 2 | 0 | |
| Theory of Mechanism | 230 | 2 | 15 | 2 | 13 | |
| Economics and Finance | 123 | 1 | 0 | 1 | 0 | |
| Chemical Laboratory | 89 | 0 | 3 | 0 | 8 | |
| Engineering Drawing | 166 | 0 | 12 | 0 | 12 | |
| Physical Training | | 0 | 2 | 0 | 2 | |

THIRD YEAR

| | } | Hours per week | | | | |
|------------------------|----------|----------------|-------|------------|-------|--|
| Subject | No. | First | Term | Second Ter | | |
| | ì | Lect | Lab'y | Lect | Lab'y | |
| Engineering Chemistry | 102 | 1 1 | , 0 | 1 | 0 | |
| Thermodynamics | 217, 219 | 2 | 2 | 2 | 11 | |
| Hydraulics | 206 | 2 | 0 | 2 | 1 | |
| Heat Engines | 218 | 1 | 0 | 1 | 0 | |
| Mechanics of Machinery | 231 | 1 | 0 | 1 | 0 | |
| Machine Design | 233 | 2 | 43 | 2 | 41 | |
| Alternating Current | 139 | 1 | 0 | 2 | 0 | |
| Physical Metallurgy | 244 | 0 | 0 | 2 | 0 | |
| Electrochemistry | 107, 108 | 2 | 3 | 0 | 0 | |
| Magnetism and Elec- | | ì | 1 | | 1 | |
| tricity | 138 | 2 | 0 | 1 | 0 | |
| Electrical Design | 141, 142 | 1 | 8 | 1 | 3 | |
| Commercial Law | 124 | 1 | 0 | 1 | 0 | |
| Electrical Laboratory | 140 | 1 0 | 6 | 0 | 6 | |

ELECTRICAL ENGINEERING-FOURTH YEAR

| | I | Hours per week | | | |
|-----------------------|---------------|----------------|-------|-------|----------|
| Subject | No | First | Term | Secon | d Term |
| | 1 | Lect | Lab'y | Lect | Lab'y |
| Thesis | 285 | | 1 | | <u> </u> |
| Engineering Economics | 125 | 0 | 0 | 1 | 0 |
| Industrial Management | 130 | 1 | 0 | 1 | 0 |
| Applied Electricity | 145, 146 | 4 | 20 | 4 | 19 |
| AND ONE OF | ' ' | | | | l |
| Hydraulics . | 207, 208, 209 | 8 | 9 | 3 | 10 |
| Thermodynamics | 220, 221, 222 | 3 | 9 | 3 | 9 |
| Electrochemistry | 114, 115 | 2 | 9 | 2 | 9 |
| OR | | | | | |
| Radiotelegraphy | 147, 148 | 2 | 9 | 2 | 9 |
| and | | | | | |
| Acquetice | 100 | | 1 | ١ ، | |

8 DEPARTMENT OF METALLURGICAL ENGINEERING

This course is designed for those who intend to take up work in connection with the production, creatment and working of metals for the purposes of industry, or the design, construction, or operation of metallargical plants including smelters, furnaces, foundries, refinemenes, and haivation works, and administrative work in connection with both Engineering and Industrial industrialings

FIRST YEAR

| | i | Hours per week | | | | |
|-----------------------|----------|----------------|-------|-------------|-------|--|
| Subject | No | First | Term | Second Terr | | |
| | 1 | Lect | Lab'y | Lect | Lab'y | |
| Calculus | 236 | 2 | 0 | 2 | 0 | |
| Analytical Geometry | 238 | 1 | 0 | 2 | 0 | |
| Descriptive Geometry | 160 | 1 | 0 | 1 | 0 | |
| Surveying . | 270, 271 | 1 | 5 | 1 | 0 | |
| Statics | 1 | 2 | 0 | 2 | 0 | |
| Dynamics | 2 | 2 | 0 | 2 | 0 | |
| Elementary Chemistry | 85 | 2 | 0 | 1 | 0 | |
| Electricity | 135 | 2 | 0 | 2 | 0 | |
| Technical English | 122(a) | 1 | 0 | 1 | 0 | |
| Business . | 121 | 0 | 0 | 1 | 0 | |
| Mineralogy Laboratory | 256 | 0 | 0 | 0 | 3 | |
| Engineering Drawing | 166 | 0 | 11 | 0 | 14 | |
| Physical Training | | 0 | 2 | 0 | 2 | |

SECOND YEAR

| | 1 1 | Hours per week | | | | |
|------------------------|---------------|----------------|-------|-------------|-------|--|
| Subject | No | First Term | | Second Terr | | |
| | 1 [| Lect | Lab'y | Lect | Lab'y | |
| Dynamics | 3 | 1 | 0 | 1 | 0 | |
| Mechanics of Materials | 4 | 2 | 0 | 2 | 0 | |
| Chemistry | 87A,87B,88,91 | 2 | 14 | 1 | 13 | |
| Metallurgy | 241, 242 | 1 | 0 | 2 | 0 | |
| Geology and Ore De- | 1 | | ļ | İ | | |
| posits | 196 | 1 | 1 | 1 | 1 | |
| Steam Engines | 216 | 1 | 0 | 0 | 0 | |
| Electricity | 136, 137 | 2 | 3 | 2 | 3 | |
| Spanish | 268 | 1 | 0 | 1 | 0 | |
| Economics and Finance | 123 | 1 | 0 | 1 | 0 | |
| Engineering Drawing | 172 | 0 | 3 | 0 | 6 | |
| Physical Training | | 0 | 2 | 0 | 2 | |

METALLURGICAL ENGINEERING-THIRD YEAR

| | | Hours per week | | | | |
|-----------------------|----------|----------------|-------|-------------|-------|--|
| Subject | No | | | Second Term | | |
| · | | Lect | Lab'y | Lect | Lab'y | |
| Engineering Chemistry | 102 | 1 1 | 0 | 1 | 0 | |
| Cements and Concrete | 11 | 0 | 0 | 1 | 0 | |
| Heat Engines | 218 | 1 | 0 | 1 | 0 | |
| Electricity | 143, 144 | 1 | 3 | 1 | 3 | |
| Electrochemistry | 107, 108 | 2 | 3 | 0 | 0 | |
| Assaving | 45, 46 | 1 | 3 | 0 | 3 | |
| Ore Dressing | 58, 59 | 1 | 3 | 1 | 3 | |
| Mining | 51, 52 | 1 | 0 | 1 | 0 | |
| Metallurgy | 245 | 2 | 3 | 1 | 6 | |
| Physical Metallurgy | 246 | 1 | 3 | 1 | 0 | |
| Machine Design | 234 | 1 | 0 | 1 | 8 | |
| Commercial Law | 124 | 1 | 0 | 1 | 0 | |
| Chemical Laboratory | 101 | 0 | 0 | 0 | 6 | |
| Engineering Drawing | 177 | 0 | 8 | 0 | 0 | |
| Analytical Chemistry | 88 | 1 | 1 0 | 1 | 1 0 | |

FOURTH YEAR

| ì | | Hours per week | | | | |
|--------------------------|----------|----------------|--------|--------|--------|--|
| Subject | No | Firs | t Term | Secon | d Term | |
| · I | | Lect | Lab'y | Second | Lab'y | |
| Thesis | 285 | 0 | 6 | 0 | В | |
| Engineering Economics | 125 | 0 | 0 | 1 | 0 | |
| Contracts and Specifica- | | 1 | | | 1 | |
| tions | 127 | 0 | 0 | 1 | 0 | |
| Plant Management | 129 | 0 | 0 | 1 | 0 | |
| Thermodynamics | 223 | 1 | 0 | 1 | 0 | |
| Assaying | 47, 48 | 0 | 0 | 1 | 3 | |
| Ore Dressing | 60, 61 | 1 | 6 | 1 | 0 | |
| Electrochemistry | 114, 115 | 2 | 3 | 2 | 3 | |
| Metallurgy | 249 | 1 | 0 | 1 | 0 | |
| Metallurgy Problems | 248 | 2 | 4 | 2 | 4 | |
| Physical Metallurgy | 250 | 1 | 3 | 1 | 3 | |
| (Thermodynamic | | | | | | |
| Laboratory | 224 | 0 | 3 | 0 | 0 | |
| Power Hydraulic Lab- | | | | | 1 | |
| oratory | 210 | 0 | 0 | 0 | 3 | |

OUTLINE OF LECTURE AND LABORATORY COURSES PROCEEDING TO BACHELOR DEGREES

On the following pages the courses of instruction are set forth in detail. The time devoted to the various subjects, both for lectures and practical work, is indicated as accurately as possible, the hours, however, shown in the prescriptive schedules on pages 37 to 59 will govern

The curriculum as printed is intended to cover the prescription for the current year only and does not imply the right of a student to have the course unchanced during any subsequent year of his attendance

The courses are designed to give the student a sound training in the fundamental scientific principles on which the various branches of engineering are based. The instruction is given by means of lectures and practical work in the laboratories, the drafting rooms and the field

The courses in the first two years are devoted to the theoretical and essential scientific requirements of the engineering profession as a whole, with an introduction in a few cases of the practical application of these to engineering problems

In the third and fourth years, the subjects of the former years are continued with particular attention paid to their application to modern eigeneering practice in the problems of design, erection, installation and operation popular to the several branches of the profession

APPLIED MECHANICS

1 Statics -T R Loudon

All Departments, I Year, 2 hours per week, both terms

This course of lectures deals with forces in a single plane, and concerns chiefly the calculation of tension, compression and shearing stresses in frame structures and solid beams. It also deals with the consideration of problems relating to friction

2 Dynamics -T R Loudon

Departments 1, 2, 3, 6, 7, 8, I Year, 2 hours per week, both terms
This course of lectures deals with bodies having motion of translation
in one plane, also with relative motion, momentum, work and

Text Book -Tutorial Dynamics-Briggs and Bryan.

3 Dynamics of Rotation -W | Loudon

Departments 1, 2, 3, 7, 8, II Year, 1 hour per week, both terms This course covers angular motion, including moments of inertia,

sim. le harmonic motion, the pendulum, centres of mass, suspension and percussion, the simple theory of the fly-wheel and the governor

Text Book -- Dynamics of Rotation-- Loudon

4 Mechanics of Materials -P Gillespie

Departments 1, 2, 3, 6, 7, 8, II Year, 2 hours per week, both tenns In this course the atrength and elasticity of materials are mathematically treated. The stresses in such elements of structures as the ter tord, the beam, the strut and the member subjected to shear are investigated and the elementary principles of design established. In the lecture and drafting rooms through numerous problems involving the design of simple beams, columns, riverted connections, etc., those principles are evemplified. The work includes also the discussion of eccentric loading, suidenly applied loads and repeated stressy.

Reference Book -- Mechanics of Materials-- Merriman

5 Mechanics of Materials -T R Loudon

Department 4, II Year, 2 hours per week, both terms

This course deals with the mathematical consideration of stress and elasticity. Among the problems taken up are the consideration of riveted joints, theory of simple and continuous beams, the theory of columns and simple column footings

6 Theory of Structures -C R Young

Department 1, III Year, 2 hours per week, both terms

The work of the first term comprises a thorough discussion of combined stresses, columns, restrained, continuous and trussed beams, multiple beam and box griders, and plate griders. A number of designs of structures and structural details are worked out in the class and drafting rooms.

The second term is given chiefly to the design of a riveted truss highway span and a riveted truss railway span, the complete designs being made in the lecture and drafting rooms.

Text Books—Modern Framed Structures, Part III—Johnson,

Text Books — Modern Framed Structures, Part III — Johnson, Bryan and Turneaure, Structural Problems—Young, Carnegue Pocket Companion, Cambria Steel

7 Theory of Structures -C R Young

Departments 2, 3, 6, III Year, 2 hours per week, first term

The work is practically the same as that for Department I in the first term

8 Structural Design -T R Loudon

Department 4, III Year, 2 hours per week, both terms

During the first term, the economics of the design of floor systems in timber and structural steel are discussed. The design of masonry piers, structural steel and timber columns is also gone into in the first term.

The second term is taken up in the discussion of the design of roof trusses and plate girders

9 Mechanics of Materials -P Gillespie

Departments 1, 2, 3, III Vear, 3 hours per week, one term

This laboratory course is intended to give the student an introduction to the experimental study of the strength and elasticity, of materials It is intended that he shall acquire some familiarity with the construction and operation of testing machines and with the properties of the ordinary building materials.

Reference — Laboratory Instruction Sheets, Department of Civil Engineering and Applied Mechanics, U of T. 1922

10 Stress Graphics —T R Loudon

Department 1, III Year, one hour per week, both terms

This course of lectures deals mainly with graphic methods of solving stresses in framed structures. The construction of Shearing Force diagrams, Bending Moment diagrams and Influence Lines is also dealt with

Text Book -- Graphic Analysis-- Wolfe

10(a) Compound Stress —T R Loudon

Department 3, III Year, one hour per week, first term

This course deals mainly with the discussion of methods determining the stress conditions in bodies subjected to compound stress Both analytical and graphical methods of analysis are discussed

11 Cements and Concrete -P Gillespie

Departments, 1, 8, III Year, one hous per week, second term The manufacture, testing and use of Portland cement and the

The manufacture, testing and use of Portland cement and the fundamentals of the theory of reinforced concrete are discussed in this course of lectures

12 Theory of Structures -C R Young

Departments 1c, 1d, 1c, IV Year, 2 hours per week, both terms
The work comprised in this course of lectures concerns swing bridges.

arches, suspension bridges, cantilever bridges, deflections, and secondary stresses Problems based on the lectures are worked out in the drafting rooms

Reference Books -- Modern Framed Structures, Part II--Johnson, Bryan and Turneaure

13 Mechanics of Materials -P Gillespie

Departments 1, 3, IV Year, a laboratory course of 3 hours per week one term and 6 hours per week the other term

This course of experiments is intended to give the student practice in investigating the elastic and physical properties of iron, steel, concrete, timber, etc, and in the use of instruments of precision designed for that purpose

Reference Book -Materials of Construction-Johnson

 Foundations, Relaising Walls and Dams -- P Gillespie, W J Smither Department 1, IV Year, Department 3, IV Year, Option (b), 1 hour per week. both terms

This course of lectures is devoted to the design of the structures mentioned Preparatory to the discussion of the practical suspects of the subjects, and in order to gain familiarity with the fundamental principles involved, a part of the first term is given over to the consideration of the theory of compound stress. The most approved forms of construction of retaining walls, footings, abut ments, piers and dams are then described, and typical designs are worked out in the class and drifting rooms.

Some attention is also given to the principles of formula charting

Text Books and Books of Reference —Retaining Walls for Earth—
M A Howe, Walls, Bins and Grain Elevators—M S Ketchum,
A Treatise on Masonry Construction—I O Baker, Design and
Construction of Dams—E Wermann

15 Reinforced Concrete -P Gillespie

Department 1, IV Year, Department 3, IV Year, Option (b), 1 hour per week, both terms

The theory of the strength of reinforced concrete elements including the beam, the slab, the T-beam, the column and the footing, is continued in this course.

The analysis of the monolithic arch by the elastic theory is discussed, and the student is required in the drafting room to apply his knowledge to the design of simple structures

Reference books —Principles of Reinforced Concrete Construction— Turneaure and Maurer, Reinforced Concrete Construction, Vol I—Hool

16 Structural Design -T R Loudon

Department 4, IV Year, 1 hour per week, both terms

During this course of lectures, the economics of the design of complete buildings in timber, reinforced concrete and steel are discussed. This course of lectures is supplemented by the actual designing of buildings in the drafting room.

17 Structural Design -C R Young, W J Smither

Department 1e, 1d, IV Year, 1 hour per week, both terms

This course of lectures in devoted to the problems connected with the structural design of buildings of imber, stell or and reinforced concrete. The various structural elements such as the floors, columns, footings, walls and wind bracing, are fully discussed, and portions of typical buildings are designed in the class and distring rooms.

Text Books—Handbook of Building Construction—Hool and Johnson, Architects' and Builders' Handbook—Kidder—Nolan 18 Structural Design -C R Young, W J Smither

Departments 10, 1d, and 3, IV Year, 1 hour per week, first term Consideration is given in this course to the various types of mill

buildings, to the conditions governing the choice and to the details of construction in different materials Designs of portions of mill buildings are worked out in the class and drafting rooms Text Books—Steel Mill Buildings—Ketchum Mill Buildings— Tyrrell.

19. Miscellaneous Structures -W J Smither

Department 1, IV Year, 1 hour per week, second term

In this course of lectures the application of theoretical principles to the design of a variety of structures is made. Among those structures discussed are transmission line towers, elevated tanks and their supporting towers, standippes, large pressure pipes, sewers, culverts, small highway bridges, sub-surface tanks and tall chimneys. Whenever possible the lecture work is followed up by designs in the dirafting room.

20 Rashway Structures -C R Young

Department 1 at IV Year, 1 hour per week, first term

A course of lectures with exercises covering alternative bridge layouts with comparative estimates of costs, temporary and permanent trestles, tunnels, tunnels vs bridges, buildings, turntables, snow sheds and shelters

ARCHITECTURE

History of Architecture —H H Madill.
 Department 4. I Year. 1 hour per week, both terms

In this course the development of architecture is treated very briefly

and in an elementry manner, from the Pyramids of Egypt to the present day

26 History of Architecture -

Department 4, II Year, 1 hour per week, both terms

The Antique, Renaissance and the Modern styles are dealt with more fully than is possible in the elementary history

27 History of Architecture -A W McConnell

Department 4, III Year, 1 hour per week, both terms
In this course the work of the previous year is continued, with
special attention given to the development of buildings in
planning and detail

28 Elements of Architecture —H H Machill

Department 4, I Year, 1 hour per week, both terms

Lectures on the Five Orders of Architecture, their affiliated forms and the other elements used in design. Simple problems in elementary design involving the use of the orders and other elements are set from time to time. 29 History of Ornament -H H Madill

Department 4, II Year, 1 hour per week, both terms

In this course the development of Ornament is traced from the begining through Egyptian, Assyrian, Greenan, Roman, Byzantine, Romanesque, Gothic and Renaissance styles An attempt is made to analyze ornament of the best periods and to systemize the principles followed in form and colour. The development and types of modulines are also studied.

30 History of Fine Art -C W Jefferys, Frederick Coates

Department 4, III Year, 1 hour per week, both terms
In the first term the course consists of an outline of the history and

development of panting and of the minor pictorial arts from the earliest time until the present day

In the second term an outline of the history and development of the different eras of sculpture ranging from the primitive to the present day, is given

81 Archstectural Design -A W McConnell

Department 4, II Year, 1 hour per week, both terms

This course is given by means of individual instruction in the classroom by criticisms of the solutions of different problems set diright the year and by a series of lectures. It is in this course that the student begin the serious study of design, continued practice in architectural drawing and rendering affords the training necessary to make the student a proficent draughtainst.

82 Archstectural Design -A W McConnell

Department 4, III Year

Theory and practice of Design

This course is given by individual instruction in the studio and by lectures. The greater part of the course is devoted to problems in design, and forms a continuation of the course given in the preceding year.

33 Archstectural Design —A W McConnell Department 4, IV Year

The entire course is devoted to advanced academic training in designing the more monumental classes of buildings

84 Architectural Design -A W McConnell

Department 4, IV Year, Architectural Engineering Option
A short course of lectures and studio work referring especially to the
artistic side of the design of commercial buildings

85. Freehand Drawing and Water Colour Painting —C W Jefferys Department 4, 1 Year, 3 hours per week, both terms Drawing from still life objects Primary free hand perspective Primary penell, charcoal, and pen and ink rendering 35a Department 4, II Year, 3 hours per week, both terms Drawing and monochrome painting from still life Drawing from the cast

Pencil, pen and ink, and monochrome rendering

Primary water colour Drawing from landscape and natural objects

35b Department 4, III Year, 3 hours per week, both terms

Drawing from the cast
Water colour from still life Water colour rendering

Drawing from landscape and natural objects Students who are sufficiently advanced are admitted to the Fourth

Year Life Drawing Class

São Department 4, IV Year, 3 hours por week, both terms

Water colour from still life and from landscape

Drawing from life

Water colour rendering

38 Modelling -Frederick Coates

Department 4, I Year, 2 hours per week, both terms The Orders Synopsis of styles

36c Department 4, II Year, 2 hours per week, both terms Problems in figures and in relation to architecture

86b Department 4, III Year, 2 hours per week, both terms Styles continued Problems, combination of figure, ornament and architecture and

their relative values

36c Department 4, IV Year, 2 hours per week, both terms

Modelling from life Anatomy

Composition of groups

37 Building Measurement -C H C Wright

Department 4, 1 Year, 1 hour per week, both terms

In this course of lectures the principles of measurements and mensuration with special reference to buildings will be discussed. With this is combined practice in measurements of existing buildings, quantities, etc.

38 Building Materials -C H C Wright

Department 4, III Year, 2 hours per week, both terms

The structural and aesthetic value of the various building materials

39 Sansiary Science —H H Madill

Department 4, IV Year, 1 hour per week, both terms
Modern plumbing, its design and installation, drainage, sewerage
disposal and water supply

40 Heating and Ventilating -C H C Wright

Department 4, IV Year, 1 hour per week, both terms The design of different systems, where they should be used, heating

specifications, etc

ASSAYING, MINING AND ORE DRESSING

The work in Mining is directed more to the development of the proper attitude of mind towards mining problems than to the teaching of actual mining methods

The teaching of Assaying has a two-fold function. The first is to give the student a working knowledge of the practice of the eart, so that he can earn money as an assayer on graduation and use this as a steppingstone to other positions. The second is to use the assaying laboratories for the training of the students in certain important phases of Engineering methods. The size of the apparatus, the completeness of the processes in abort intervals of time, the extreme accuracy of results when so desired, the relation of the extent of error to time and method, the similarity of the academic laboratory to the field laboratory, all these permit an unrivalled opportunity for driving home much broad Engineering philosophy. The assaying processes and apparatus lend themselves pocularly well for the development of a proper perspective in regard to errors and accuracy in measurements.

The study of Ore Dressing, when accompanied by laboratory work in a well edutinged or dressing laboratory; so not of the most important of the Mining Engineering subjects. Not only is the mechanical treatment of cress a very important branch of Mining Engineering, but the mental processes involved in a study of the fundamental principles underlying the art and the compromise necessary for field practice form one of the best fields for the development of Engineering philosophy. From these points of week the ordersing laboratory is experionally well equipped

45 Assaying -J T King

Departments 2 and 8, III Year, 1 hour per week, first term

A first course of lectures on the theory of fire assaying Emphasis is laid not only on the chemical and metallurgical principles involved, but upon the errors inherent in operators as well as in methods

Text Book-"Fulton" Manual of Fire Assaying

46 Assaying -I T King

Departments 2 and 8, 111 Year, 3 hours per week, both terms

A laboratory course in the determination of the precious metals in ores, milling and metallurgical products. Sconfication and crucible assays of ores and products, pure and impure, fluxes, slags and solutions. Buckboard practice, ores with metallics Copper and lead by electrolyses. Students are expected to deter later assays with despatch and a reasonable degree of accuracy. Weatness of work is required.

47 Assaving -I T King

Departments 2 and 8, IV Year, 1 hour lecture per week, second term
A continuation of course 45 Complex ones Combination assays,
The sampling and assay of bullion The Platinum group metals.
Checks and corrections

48. Assaying -I T King

Departments 2 and 8, IV Year, 3 hours per week, second term An advanced laboratory course in which some of the methods of course 47 are used

49 Assaying -J T King

Department 6, III Year, 3 hours per week, one term
An introductory laboratory course for Chemical Engineers Some
lecture instruction is given An abbreviation of courses 45
and 46

50 Manang -H E T Haultain and F C Dver

Department 2, I Year, 3 hours per week, second term A laboratory course, including some lectures, being an introduction to certain mining and milling machinery and methods

51 Monone -- H E T Haultain

Department 2, II Year and Department 8, III Year, 1 hour per week, first term

An introductory course of lectures

52 Moning —H E T Haultain Department 8, III Year, 1 hour per week, second term An extension of No 51

53 Mining -F C Dver

Department 2, II Year, 3 hours per week, one term

Continuation of No 50 Rock drills, sampling methods, use of explosives

54 Mining —H E T Haultain and F C Dyer Department 2, III Year, 2 hours per week, second term Principles of mining

55 Mining —H E T Haultain Department 2, IV Year, 1 hour per week, both terms Special problems, estimates, reports

56 Mine Cost Keeping and Management —H. E T Haultain Department 2, IV Year, 1 hour per week, both terms One of the fundamental features that must not be lost sight of by

the Mining Engineer is, that his work is designed primarily for purposes of financial profit This course of lectures deals with details from this point of view. The total cost of a ton of ore requiring as it does an understanding of the problems of amortization, is first dealt with in a broad way. Then are considered various problems of cost keeping, leading on to problems of time and motion study which are essential to the development of the fine points of the art in any particular mining problem. The latter part of the course deals with problems of management, the relations of members of the staff to each other, and the relations of the staff to leach other, and

- 58 Ore Dressing —H E T Haultain and F C Dyer Departments 2 and 8, HI Year, 1 hour per week, both terms The general principles of Ore dressing
- 69 Ore Dressing —F. C. Dyer Departments 2 and 8, III Year, 3 hours per week, both terms Work with crushing machinery, principles of crushing and grading screen analyses, concentration with gravity separation apparatus, etc.
- 60 Ors Dressing —H E T Haultain and F C Dyer Departments 2 and 8, IV Year, 1 hour per week, both terms No 58 continued, study of flow sheets and special problems
- 61 Ore Dressing —F C Dyer Departments 2 and 8, IV Year, 6 continuous hours per week, one term
 - Advanced work with ore dressing appliances, ore testing and check $\operatorname{mill} \operatorname{rurs}$
- 62 Ore Dressing —F C Dyer Department 6k, IV Year, 1 hour per week, both terms General principles of ore dressing
- 63 Ore Dressing —P C Dyer Department 6k, IV Year, 1 period of 6 hours per week, second term Principles of sampling, crushing and grading, screen analyses, concentration with gravity separation apparatus, flotation, ore testing, etc
- 64 Physics of Ore Dressing H E T Haultan and F C. Dyer. Department 2, III Year, 1 hour per week, both terms Ore dressing methods involve a etudy of the laws governing the phenomena of surface tenson, capillarity and colloidal solutions, in addition to these of hydrostatics and certain phases of hydraulies. This is embodied in a special course of lectures in conjunction with laboratory work in the Ore dressing laboratory.

65 Theory of Measurement -H E T Haultain

Department 2, II Year, 1 hour per week, one term

This title is not an entirely suitable one for this course of lectures because it is generally applied to a study of the philosophy of extremely accurate measurements. The Mining Engineer has to continually make satisfactory use of measurements with a wide range of inaccuracy. This course of lectures deals with the philosophy underlying the causes of these errors and the practical application of such approximations. The opportunity is taken in these lectures to deal with the subject of illustrating measurements by eranhs.

66 Introductory Research — H E T Haultain and F. C Dyer Department 2, III Year. 3 hours per week, second term

This is a laboratory course including some lectures and is a preparation for the thesis of the fourth year

67 Theses

Department 2, IV Year, 7 hours per week, first term, 10 hours per week, second term, in continuous periods

Thesis in this department consists mainly in reports on original work done in the laboratories. In the III year the subject "Introductory Research" pawes the way for the thesis. During the month of October the student decides on the subject of his thesis in consultation with his professors. After this is decided the student uses his own initiative in the development of his work.

The thesis is divided into three parts. The first part, which is handed in during the first week in November, contains the tite, a statement of what the title is meant to convey and an outline of the work that is proposed to be done. The second part is handed in during the first week of January and contains a report of progress to date and enables the professor in charge to keep in closer touch with the work. The third and final part is handed in a week before the examinations and is a report of progress to date and enclusions. The three parts combined constitute the thesis.

68 Vacation Letters

Department 2, III Year and IV Year

These are a sense of letters written during the summer vacation, dealing with various aspects of a mining engineer's work. They are intended to direct and help the student's powers of observation, analysis and criticism as well as being exercises in the art of lucid technical expression. See page 29 for instructions

69 Vacatson Work

Department 2, II Year

See page 29 for detailed instructions.

ASTRONOMY AND GEODESY

71 Astronomy, Elementary -C A Chant

Decartment 1, II Year, 1 hour per week, both terms

A course in descriptive Astronomy, explaining the ordinary setronomical terms, and describing the various celestial bodies and their motions. In the evenings opportunity will be given for identifying the stars and for observing with telescopes

Text book -Manual of Astronomy-C A Young

72. Astronomy and Geodesy -L B Stewart

Department I, III Year, 2 hours per v cek

The course of feetures deals with the determination of time, latitude, longitude and azimuth, by methods adapted to the use of the surveyor's transit and the sextant. It is designed to fulfill the requirements of the final examinations for Ontario and Dominion Land Surveyor's

In Geodesy an account is given of the principles and methods of a secondary triangulation survey, also of the principles involved in the North-West system of survey

Text books —Practical Astronomy as applied to Geodesy and Navigation—Doolittle, Nautical Almanac, 1925

73 Field Work -L B Stewart, S R Crerar

Department 1, III Year, about 2 hours per week, first term

The practical work in this subject comprises observations in the field with the transit and sextant for the determination of time, latitude and azimuth by the methods described in the lectures

74 Astronomy (Advanced) -L B Stewart

Department 1, IV Year, 2 hours per week

The lecture course in this subject comprises the theory and adjustment of the instruments used in connection with a geodetic survey, the methods of taking and reducing observations for time, longitude, latitude, and azimuth, with the precision required on such a survey, and other matters relating to these subjects.

75 Geodesy and Metrology -L B Stewart

Department 1, IV Year, 2 hours per week

The lecture course includes a description of the methods of measuring base lines and the anglies of a transgulation, the geometry of the spheroid with applications to geodetic problems, the computation of geodetic posturos, the solution of large transgles on the earth's surface, and the adjustment of a transgulation, trigonometric and precase spurit levelling, it determination of the figure of the earth by are measurements, and by the pendulum; the theory of map projections, etc.

76 Astronomy, Geodesy and Metrology —L B Stewart Department 1, IV Year, about 23 hours per week

The practical wolk in the above subjects includes the observation of meridian transits for time and longitude determinations, and of prime you tical transits for latitude, it the astronomical transit instrument, the observation of meridian zenith distances of stars, and of azimuths at elongianto for latitude, with the alt-azimuth, the observations for azimuth, observations for latitude with the zenit telescope, the investigation of the constants of the instruments used, and the reduction of all observations, the measurement of a base line with the steel tape and with invar wires, and the determination of the constants of the tape, the measurement of the angles of a transgulation and the adjustment of the degree of a transgulation and the adjustment of the angles of network of transgles, etc. A portion of this work will be taken at the Summer Survey Camp. (See pass 81)

BIOLOGY

80 Elementary Biology - J H Faull

Department 6, I Year, 3 hours per week, each term

An elementary laboratory course on the nature and identification of plant and animal tissues and products, with microscope practice

 Elementary Biology — J W MacArthur Department 1_b, IV Year

A special Course of Laboratory work and demonstrations in General Biology, five hours per week, first term

- 82 Hygiers and Bacteriology —D T Fraser and R R McClenahan Departments Is and 6. IV Year
 - (1) This is a course of twenty-five lectures, dealing with the principles of Hygene and Santary Science and including a discussion of the facts in Bacteriology which are necessary for a proper understanding of Hygene and Santary Science. The particular phases of the subject which are of importance from the standpoint of Santary Engineering are dealt with.
 - (2) This is a laboratory course of six hours per week, second term, dealing especially with the Bacteriology of water, milk and sewage

CHEMISTRY

85 Elementary Chemistry -E G R Ardagh

Departments 1, 2, 3, 6, 7, 8, I Year, 2 hours per week, first term, 1 hour per week, second term

A lecture course in elementary chemistry dealing with the non-metals, with experimental illustrations

86 Inorganic Chemistry -L J Rogers

Department 6, I Year, 10 hours per week, both terms

A laboratory course of quantitative experiments illustrating the use of the sensitive balance, and confirming the fundamental laws of chemistry, qualitative inorganic analysis, quantitative analysis of pure salts, inorganic preparations, molar weight determinations

Text books —Analytical Chemistry, Vol II—Treadwell Hall, Qualitative Chemical Analysis—A A Noyes

87A Inorganic Chemistry A —E G R Ardagh Departments 1, 2, 3, 6, 7 and 8, II Year, 1 hour per week, first term

A continuation of Course 85 dealing especially with the metals

87B Inorganic Chemistry B -E G R Ardagh

Departments 2, 6 and 8, II Year, 1 hour per week, second term

A lecture course on theoretical chemistry with special reference to the

metals, a continuation of Course 85 Text book — Smith's College Chemistry—Kendall

88 Analytical Chemistry -L | Rogers

Departments 2, 6 and 8, III Year, 1 hour per week, both terms
A lecture course on the principles of chemical analysis, select gravimetric and volumetric methods, technical analysis

89 Analytical Chemistry -E G R Ardagh

Departments 1, 2, 3 and 7, II Year, 3 hours per week

Laboratory practice in elementary qualitative and quantitative
analysis

Text book -A Smaller Chemical Analysis-Newth

90 Analytical Chemistry -I W Bain

Department 2, II Year, 3 hours per week, both terms

A laboratory course in the gravimetric determination of metals and acids, with elementary volumetric analysis

Text book —A Manual of Chemical Analysis, Qualitative and Quantitative—Newth

91. Analytical Chemistry -L J Rogers

Department 8, II Year, about 12 hours per week

A laboratory course comprising gravimetric and volumetric methods, acidimetry and alkalimetry

Text books —Analytical Chemisery, Vol II—Treadwell Hall, Qualitative Chemical Analysis—A A Noves

92 Analytical Chemistry —L J Rogers Department 6, II Year, 180 hours

A laboratory course in quantitative chemical analysis, inorganic preparations

Text book -Analytical Chemistry, Vol II-Treadwell Hall

93 Engineering Chemistry - J W Bain

Departments 1, 3, 6 and 7, II Year, 1 hour per week, first term A lecture course consisting of a study of the industrial production and

application of heat and light, and of the chemistry of fuel and the products of combustion

94 Industrial Chemistry -J W Bain

Department 6, II Year, 1 hour per week, both terms

A lecture course on the manufacture of salts, acids, alkalies and inorganic chemicals

95 Organic Chemistry —M C Boswell Departments 1, 2, 3 and 7, II Year, 1 hour per week, second term A lecture course in elementary organic chemistry

96 Organic Chemistry —M C Boswell Department 6, II Year, 2 hours per week, both terms A lecture course dealing with the aliphatic compounds

97 Organic Chemistry —M C Boswell Department 6, II Year, 60 hours A laboratory course in organic preparations

98 Physical Chemistry —F B Kenrick

Departments 6, II Year, 2 hours per week, both terms

A course of lectures on the elements of chemical mechanics, and the
theory of solutions

99 Analytical Chemistry — L J Rogers Department 2, III Year, 3 hours per week, first term, 6 hours per week, second term

A laboratory course on the technical analysis of ores and furnice products

100 Industrial Chemistry —E G R Ardagh Department 6, III Year, about 10 hours per week A laboratory course in industrial chemistry

101 Analytical Chemistry and Phase Rule — L J Rogers, J T Burt-Gerrans Department 8, III Year, about 6 hours per work

Department 8, III Year, about 6 hours per week A laboratory course in analysis and phase rule

102 Engineering Chemistry — J W Bain, E G R Ardagh Departments 1, 2, 3, 6, 7 and 8, III Year, 1 hour per week, both terms

A lecture course on the application of chemistry to engineering problems, air, water, sewage, the materials of construction explosives, etc 103 Industrial Chemistry —E G R Ardagh Department G, III Year, 1 hour per week, both terms

A lecture course on petroleum and its products, coal tar and its products, fats, oils, soap, sugar, starch, and gums, fermentation

industries, etc 104 Chemical Plant — J W Bain

Department 6, III Year, I hour per veek, both terms
A lecture course on the machinery and plant used in chemical mann

facturing

105 Organic Chemistry -M C Boswell

Department 6, III Year, 2 hours per week, both terms A lecture course on the aromatic series

108 Organic Chemistry —M C Boswell Department 6, III Year, 85 hours A laboratory course in organic preparations in the aromatic series.

107 Electrochemistry —W L Miller
Departments 6, 7 and 8, 111 Year, Department 2, IV Year, 2 hours
per week, first term

A lecture course on elementary electrochemistry, illustrated by experi-

108 Electrochemistry —W L Miller and J T Burt-Gerrans
Departments 6, 7 and 8, III Year, 3 hours per week, first term
Department 2, IV Year

A laboratory course in quantitative measurements to accompany Course 107

109 Inorganic Chemistry —J W Bain Department 6, IV Year, 2 hours per week, both terms A lecture course on chemical theory

110 Organic Chemistry — M C Boswell Department 6, IV Year, 1 hour per week, both terms A lecture course on advanced organic chemistry

111 Organic Chemistry —M C Boswell Department 6, IV Year A laboratory course in advanced organic chemistry

112 Industrial Chemistry — J W Bain Department 6, IV Year. 1 hour per week, both terms A lecture course on selected subjects in chemical technology

113 Industrial Chemistry — J W Bain, E G R Ardagh, M C. Boswell. Department 6, IV Year A laboratory course in industrial problems 14 Electrochemistry - J T Buit-Gerrans

Department 6, 7 and 8, IV Year, 2 hours per week, both terms

An advanced lecture course on the theory of solutions and electrolysis, and the application to the practice of electro-deposition and electrolytic refining of metals The course also includes lectures on the electric furnacc with special consideration of efficiency

Text books—Electrometallurgy—Borchers, Electrochemistry—Le Blanc, Electrochemistry—Luepke, The Electric Furnace— Stansfield

115 Electrochemistry —W L. Miller and J T Burt-Gerrans Departments 6, 7 and 8, IV Year

A laboratory course accompanying Course 114

116 Sanstary and Forensic Chemsstry -J W Bain

Department 6, IV Year, 1 hour per week, both terms
A lecture course on the composition and examination of air, water and

food, poisons and their detection, with accompanying laboratory course

117 Sanstary Chemistry -E G R Ardagh

Department 1_b, IV Year
A lecture and laboratory course on water supply, sewage disposal

ventilation, etc

ECONOMICS AND BUSINESS ADMINISTRATION

121 Business -W S Ferguson

Departments 1, 2, 3, 6, 7, 8, I Year, 1 hour per week, second term A lecture course on the principles underlying accounting and general business methods of a simple nature in order to enable the student to understand simple financial reports

123 Technical English -S G Bennett

(a) All Departments, I Year, 1 hour per week, both terms

A lecture course on the expression of ideas and the compilation and writing of different types of engineering reports, technical exposition, the derivation and use of technical terms, the nocessity of accurate expression in professional writing, terminology, the use of graphic methods for presenting facts, abbrevations, numbers, symbols

(b) Department 4, II Year, 1 hour per week, both terms

This course of lectures includes a discourse on the literature which refers either directly or indirectly to architecture and the arts. Books are reviewed and discussed in round-table talks and essays prepared for practice in expression. The preparation of spenifications and contracts for the execution of construction is continued from the course in the first year, specializing in architectural types

123 Reanomies and Finance - C R Fay

- All Departments, II Year, 1 hour per week, both terms
- An introduction to the study of Economics The course will deal in an elementary fashion with the following
- (1) Scope and Method of Economics
- (2) Theory of Value and Distribution
- (3) Structure of Industry and Social Conditions
- (4) Money, Banking and Public Finance
- Text Book —Economics for the General Reader—Clay

124 Commercial Law -A R Clute

All departments, III Vear, I hour per week, both terms Genard Pruncples of the Law of Contracts, Pruncpleal and Agent, Partnership and Limuted Companies (with special reference to the Companies Acts). General view of the following—Negotible Instruments, Sale of Goods, Bills of Sale and Chattel Mortgaces, Surestables and Chattel Mortgaces,

Text-Book -Stephens' Elements of Mercantile Law (5th Ed., 1911.)

125 Engineering Economics -C R Young

Departments 1, 3, 7, 8, IV Year, 1 hour per week, second term

A sense of lectures on the principles by which the economic practicability of a project is judged and the comparison of competing proposals is made. Consideration is given to first cost and annual cost, methods of estimating, fixed charges and operating expenses, valuation and appraisals. Special attention is given to depreciation and the methods of providing for it, as well as to its relation to amoutization. Typical numerical problems are discussed and solved.

Text Books —Engineering Economies—Fish; Financial Engineering —Goldman

126 Engineering Law -R E Laidlaw

Department 1, IV Year, 1 hour per week, first term.

A course of lectures, co-ordinating Engineering practice and Law as contained in various legislation such as The Railway Act, Municipal Act, Public Health Act, Arbitration Act, Workmen's Compensation Act, Patents, Copyrights, etc

127 Contracts and Specifications -C R Young

Departments 1, 4, 8, IV Year, 1 hour per week, second term

This course of lectures deals with the fundamental principles of contract and specification writing. The critical examination of typical specifications and agreements by the class, forms an essential feature of the instruction.

Text Books —Engineering Contracts and Specifications—Johnson, Elements of Specification Writing—Kirby i28 Management -C R Young

Department 1, IV Year, 1 hour per week, first term

A series of lectures dealing with the fundamental principles upon which management is based. The possibilities of effective management are indicated and its basis is shown to evist in suitable organization, adequate equipment and smooth administration. Consideration is given to such matters as selection of personnel, essentials of effective organization for enterprises of widely different character and the art of directing a force so as to attain a desired end an expeditious and effective manner.

as to attain a desired end in an expeditious and effective manner
Text Books —Construction Cost Keeping and Management—Gillette
and Dana, Principles of Industrial Organization—Kimball,
Administration of Industrial Enterprises—Iones

129 Plant Management -G A Guess

Department 8, IV Year, 1 hour per week, first term
A course of twelve lectures dealing with some phases of labour,

plant organization, smelter contracts and markets

180 Industrial Management -E A Allcut

Departments 3 (Option c), 6 and 7, IV Year, 1 lecture per week, both terms

This course includes a study of industrial organization, location, arrangement, construction and equipment of industrial plants for efficiency and economy, process routing, scheduling wolk, reports, methods of superintending, employment, systems of compensating labour and systems of distributing indirect expenses.

131 Raslway Economics -W M Treadgold

Department 1, Option e, IV Year, 2 hours per week, both terms

The object of this course is to make the student acquainted with the general principle of railroad engineering and the following branches of the subject will be discussed—economic theory of location, train reestance, effect of grade, distance and curviver, rise and fall, maintenance of way, yards and street railway practice.

132 Musicipal Administration —P Gillespic, A T Laing Department 1, Option b. IV Year. 1 hour per week, both terms

A course of lectures dealing with civics, local improvement laws and assessments, building codes, fire control, transportation, public utilities, etc

133 Public Speaking -W H Greaves

Department 1, III Year, 1 hour per week, first term

A course on the principles of public speaking and the means of expression accompanied by practical application and training in actual speaking

ELECTRICITY

185 Electricity -H W Price

Departments 1, 2, 3, 6, 7 and 8, 1 Year, 2 hours per work, both terms A course of lectures on base procepts relating to electric entraints and apparatus in general, distribution of electrical energy, etc. plinistrated largely from commercial apparatus. The point of view of this work is quantitative rather than descriptive, for it is believed that men who can solve engineering problems are most likely to grasp underlying prin-

186 Electricity -- W S Guest

cent lamps

Departments 3, 6, 7 and 8, II Year, 2 hours per week, both terms
Deals with the theory of electrical measurements, and detailed study
of various methods applicable under different conditions in engineering practice to the measurement of resistance current, potential difference, power and energy, calibration of commercial
measuring instruments. The effect of choice of conditions of
measurement on the accuracy of the result is considered.

137 Electrical Laboratory -W S Guest

Departments 8, 6, 7 and 8, II Year, 8 hours per week, both terms This liboratory course is closely associated with the lecture course is 88 on electricity for the second year. The more important and useful methods of testing generators and cureuit for electromotive Coc, resistance, current, grounds, etc., are practiced, often under conditions such as occur in practice. The work also includes methods of calibration of measuring instruments for voltage, current, power and energy, and certain studies of properties of incandes-

138 Magnetism and Electricity -A R Zimmer

Department 3, III Year, 2 hours per week, first term

Department 7, III Year, 2 hours per week, first term, 1 hour per week, second term

A course of lectures on theory of magnetism and magnetic circuits, theory of direct-current generators, motors, etc

139 Alternating Current -A R Zimmer

Department 3, III Year, 1 hour per week, both terms

Department 7, III Year, 1 hour per week, first term, 2 hours per week, second term

A first course of lectures on alternating current, covering principles of measurement and leading to the analytical and graphical treatment of the simpler problems relative to alternating-current circuits and machinery

140 Electrical Laboratory -A R Zimmer

Department 3, III Year, 3 hours per week, Department 7, III Year, 6 hours per week

- This laboratory course is intended to afford the student an opportunity to become familiar with principles involved in continuouscurrent shunt, series and compound-wound generators and motors, and, to some extent, alternating-current cucuits and machinery Other sections of the work deal with the magnetic properties of iron and steel, and study of iron losses in transformers and gener-
- The course is arranged to stand in close relation to the lecture courses in the subjects of magnetism and electricity and alternating current (138, 139) for III Year, and to certain design work (141) 141 Electrical Design -H W Price
- Department 7, III Year, 1 hour per week

A course of lectures dealing with design of electrical apparatus and machinery, accompanied by designs to be worked out in the design room

42. Electrical Design -H W Price

Department 7, III Year, 3 hours per week

A design room is set apart for working out designs of electrical apparatus such as transformers, generators, motors, auxiliary apparatus, etc

Special forms and notes are employed, arranged to suit the various studies Certain models are provided to assist where necessary

148 Electricity -H W Price

Departments 1, 2 and 8, III Year, 1 hour per week, both terms A continuation of Course 135, First Year, adapted to the require-

ments of non-electrical students. It deals with problems on direct-current circuits and apparatus, magnetic circuits, power measurements, alternating current principles and machinery, transmission, power-plants, etc

144 Electrical Laboratory -H W Price, A R Zimmer

(a) Department 1

III Year, 3 hours per week, first term IV Year, Options d and e, 3 hours per week, second term

(b) Department 2

IV Year, 3 hours per week, first term (c) Department 3

IV Year, 3 hours per week, second term (d) Department 6

III Year, 3 hours per week, first term (e) Department 8

III Year, 3 hours per week, both terms

These courses are arranged to suit the requirements of the departments concerned. The experiments are planned with the idea of affording a general knowledge of circuits, power measurements. direct-current and alternating current machinery and transmission of nower

- 145 Applied Electricity -- (a) Symbolic and Graphical Methods,
 - (b) Wave Form and Transmission Line—T R Rosebrugh

Department 7, IV Year, 2 hours per week

- (a) Complex quantities and then use in a c problems. Loci for current and voltage vectors for given limitations on circuit constants. Short line distribution encut loci, approximate graphical theory of synchronous motor.
- (b) Non-snusoidal alternating current waves, analysis of waves, forms of symmetry, three phase limitations, climination of undesired harmonics, heating of rotary convictes from combined a c and communited d c waves, power, current, and voltage readiness as influenced by wave form
 - Long distance transmission line, principles and calculation Unequal lines in tandem and in parallel
- Applied Electricity, (c) A C Machinery and Measurements —H W Price

Department 7, IV Year, 2 hours per week

Polyphase alternating-current measurements of power, reactive power, apparent power, finding the indications of metes from given wring diagrams, constructing wining diagrams to obtain required meter indications. Potential and current transformers Meter indications with distorted wave forms. Power transformers. Properties of alternations, induction motions of squared cage and wound-rotor types, synchronous motors, regulators, current-finiting seators, a restetier, and other general apparatus.

146 Electrical Laboratory -A R Zimmer

Department 7, IV Year, in connection with 145, 20 hours per week This laboratory course involves a thorough study of principles and properties of single and polyphase circuits and apparatus. Both vector and analytical methods are applied to the solution of problems based on tests made on laboratory machines

The work deals manly with constant-voltage and constant-current transformers, usingle and polyphase alternators, synchionous motors, rotary converters, induction and single phase commutating motors, transmission line, etc. The work does not consist only of factory tests, but is designed to lead the student to apply theory to practice as illustrated in the apparatus under test, with a view to an easet understanding of methods and an appreciation of limitations under many conditions. Free use is mude of the oscillograph as a necessary device for "secing" conditions under investigation. The best commercial measuring instruments are available.

147 Radiotelegraphy -T R Rosebrugh

Department 7 Option r, IV Year, in connection with 148, 2 hours ner week

Natural oscillations of simple and simply coupled circuits Action of C W on circuits of the most general character Radiation of antennas Theory of modulation in radiotelephony Energy control and transformation by vacuum tubes

148 Radiotelegraph Laboratory -- W C C Duncan

Department 7 Option r, IV Year, in connection with 147, 9 hours

The work in this laboratory covers the principles and the technique of measurements at radio frequencies. This includes measurements of wave length, resonance, coupled circuits, inductance, capacity, energy distribution, resistance, etc., at radio frequencies.

Considerable work is also done with the three electrode vacuum tube and its uses in radio and audio-frequency circuits

ENGINEERING DRAWING AND DESCRIPTIVE GEOMETRY

160 Descriptive Geometry - J R Cockburn

Departments 1, 2, 3, 6, 7 and 8, I Year, 1 hour per week, both terms
This course of lectures deals chiefly with the principles of orthographic
and oblique projections and the application of such principles to
the solutions of problems relating to straight lines and planes

161 Descriptive Geometry -- J R Cockburn

Department 4, I Year, 1 hour per week, both terms

This course of lectures deals chiefly with the principles of orthographic and oblique projections and the application of such principles to the solution of problems relating to straight lines and planes, special reference being made to the determination of shades and shadows.

162 Descriptione Geometry -- J R Cockburn

Departments I, 2, 3 and 7, II Year, 1 hour per week, both terms This course of lectures is a continuation of the work taken in the first year with the following additions. Problems relating to curved surfaces, improples of shades, shadows and persective

163 Descriptive Geometry - J R Cockburn

Department 4, II Year, 1 hour per week, both terms

This course of lectures is a continuation of the work taken in the First Year with the addition of problems relating to curved surfaces, shades, shadows and perspective

164 Descriptive Geometry -- J R Cockburn

Department 1. III Year, 1 hour per week, first term

This course of lectures deals with spherical projections, the principles of mapmaking, and the graphical solution of spherical triangles

165 Descriptive Geometry - J R Cockburn

Department 4, III Year, 1 hour per week, first term Advanced work in shades, shadows and perspective

166 Engineering Drawing -J R Cockburn

Departments 1, 2, 3, 7 and 8, I Year, 11 hours per week, first term, 18 hours per week, second term

Copying from the flat, kttering, topography, graphical solution of problems in statics, problems in descriptive geometry, relating to both orthographic and oblique projections, the plotting of original surveys, measured drawings

167 Archstectural Drawing -J R Cockburn, H H Madill

Department 4, I Year, 9 hours per week first term, 18 hours per week, second term

Copying from the flat, lettering, rendering the graphical solution of problems in statics, problems in descriptive geometry, relating to both orthographic and oblique projections, measured drawings Elements and principles of Architecture

168 - Engineering Drawing -I R Cockburn.

Department 6, I Year, 4 hours per week, both terms

Copying from the flat, lettering, graphical solution of problems in statics, problems in descriptive geometry

169 Engineering Drawing -J R. Cockburn

Departments 1 and 2, II Year Department 1, 4½ hours per week, first term, 13½ hours per week, second term Department 2, 3 hours per week first term, 12 hours per week, second term

Colouring and shading as applied to both topographical and construction drawings, problems in descriptive geometry iclating to solids bounded by curved surfaces, principles of shades, shadows and perspective, solution of problems in optics and strength of materials, measured drawings, elementary design

170 Engineering Drawing -J R Cockburn

Departments 3 and 7, II Year, Department 3, 13 hours per week, first term, 11 hours per week second term, Department 7, 12 hours per week, both terms

Coloring and shading as applied to construction drawings, problems in descriptive geometry relating to solids bounded by curved surfaces, principles of shades, shadows and perspective, solution of problems in optics, theory of mechanism and strength of materials, measured drawings, elementary design 171 Architectural Drawing —J R Cockburn, A Wellesley McConnell, H H Madill

Department 4, II Year, 17 hours per week, both terms

Exercises from the orders of architecture, principles of shades, shadows and perspective, elementary architectural design, problems in descriptive geometry relating to solids bound by curved surfaces, solution of problems in optics and strength of materials, measured drawings.

172 Engineering Drawing -J R Cockburn

Department 6, II Years, 7 hours per week, first term, 3 hours per week, second term

Department 8, II Year, 3 hours per week, first term, 6 hours per week, second term

(Same as Department 3 with the exception that Dept $\,6$ has no descriptive geometry)

173 Engineering Drawing -J R Cockburn, C R Young

Department 1, III Year, 15 hours per week first term, 12 hours per week, second term

Principles of mapmaking, spherical projection, plotting of original surveys relating to topographical and railway work, problems in theory of construction, original design of various structures, measured drawings

174 Engineering Drawing -J R Cockburn

Department 2, III Year, 9 hours per week, first term

Plotting of original surveys, relating to topographical and railway work and mining, problems in theory of construction, original design, measured drawings

175 Architectural Drawing —J R Cockburn, A Wellesley McConnell, H H Madill

Department 4, III Year, 18 hours per week, both terms

Architectural design, advanced work in monochrome and colouis, problems in shades, shadows and perspective, problems in theory of construction, including framed structures

176 Architectural Drawing — J R Cockburn Department 4, III Year, 1 hour per week, first term Advanced work in shades, shadows and perspective

177 Engineering Drawing -J R Cockburn, C R Young

Departments 3, 6 and 8, III Year, Department 3, 9 hours per week, first term, Department 6, 6 hours per week, first term, Department 8, 3 hours per week, first term

Problems in design dealing with the theory of structures

178 Structural Design Drawing —C R Young, W J Smither Department 1, IV Year, 22 hours per week, both terms Problems in structural design 170 Structural Design Drawing —C R Young, W J Smither Department 16, IV Year, 5 hours per week, second term Department 1d, IV Year, 4 hours per week, first term, 8 hours per week, second term

Department 1s, IV Year, 6 hours per week, both terms Problems in structural design

- 180 Structural Design Drawing —C R Young, W J Smither Department 3, IV Year, 3 hours per week, both terms Problems in mill building design
- 181 Structural Design Drawing —P Gillespie, W J Smither Department 3, IV Year, Option (b), 3 hours per week, both terms Problems in reinforced concrete design

ENGINEERING PHYSICS

185 Illuminating Engineering and Optics —G R Anderson Departments 1, 3, 6, 7, I Year

Rectilinear propagation of light, illumination, photometry, light standards Distribution of light by reflectors and diffusers, general and selective absorption, economic values of artificial lights Illumination calculations

Laws of reflection and refraction, theory of optical instruments
Light considered as wave motion, dispersion, spectrum analysis, colour
phenomena, polarization

Lectures and laboratory work, both terms

186 Hydrostatics -G R Anderson

Departments 1, 3, 6, 7, II Year
Laws of fluid pressure and application to machines Density of solids, and fluids, theory of flotation

Lectures and laboratory work. Spring term

187. Heat -G R. Anderson

Departments 1, II Vear

Generation and propagation of heat General and industrial thermometry, calorimetry and pyrometry. Linear and cubical expansion, gaslaws Specific heat of solids, liquids and gases, latent heat of fusion and vaporization Mechanical equivalent of heat Carnot cycle

Lecture and laboratory work, Fall term

188 Photography -G. R Anderson

Department 1, II Year

The camera and its adjustments, lenses, shutters, screens Plates for various purposes, films, prevention of halation Lighting, exposure, development. Paper of various kinds, printing, enlarge-

ment and reduction, blue printing and allied processes Record photography, photogrammetry and photo-surveying Photography in colour

Lectures Fall term, and laboratory work both terms

189 Illumination -G R Anderson

Department 4, II Year

Principles of interior and street illumination Artificial lighting of public and private buildings, etc

190 Acoustics -G R Anderson

Department 4, III Year, Department 7, IV Year

Wave motion, propagation, reflection and transmission of sounds Laws of vibrating strings, pipes and folis. Velocity of sounds Musical scales: Absorption of sound by various substances, use of deadening material in buildings. Amount of reverbeating permissible and desirable in public buildings. Lectures and laboratory work.

191 Photographic Surveying G R. Anderson.

Department 1a, IV Year, 1 hour lecture and 2 hours laboratory, first term

This course presupposes a general knowledge of photographic processes as given in the second year. Treatment of a photograph as a perspective drawing from which plan and elevation to scale may be obtained under certain conditions. The intersection method of photographic surveying, its advantages and limitations. The stereoscopic method with its advantages and disadvantages. Method of plotting. Accuracy of results

GEOLOGY

193 Field Work —E S Moore Department 2, III Year, one week preceding the opening of the first term

194 Plesstocene Geology and Physiography -A MacLean

Department 2, IV Year, 1 hour per week, both terms Pisstonene Goolegy—Lectures on the formation and distribution of the drift deposits of North America, with brief references to other regions Glacial, Integlacial, and Postglacial beds are described, changes of climate are discussed with their probable sauses, and the economic features of the clays, sands, and gravels are pointed out A weekly excursion is made during October and November to points of interest near Toronto, which is the centre of the most important development of the Pleistocene in America Physiography —A course of lectures on the surface forms of the earth, with the geological factors which have produced them. The broad features of the earth, its phasin, tablelands, hills, valleys, mountains, occans, rivers, and lakes are discussed in a general way, methods of topographical surveying and mapping are referred to, and the cluef physiographic areas of Canada are described.

195 Elementary Geology -W A Parks

Departments 1, 2, 11 Year, 2 hours per week, second term
This course deals chiefly with historical geology with special reference
to Canadian formations

Works of Reference —Introduction to Geology—Scott, Elementary Geology—Coleman and Parks

196 Geology and Ore Deposits -A MacLean

Department 8, II Year, 2 hours per week, both terms

Lectures and laboratory work on historical, structural, and economic geology, designed to familiarize the student with the more important principles, facts, and terms of general geology Works of Reference—As in Course 195

197 Engineering Geology -A MacLean

Department 1, III Year, 1 hour per week, both terms

This course deals with the application to engineering of dynamic, structural, and economic geology

Works of Reference -Engineering Geology-Ries and Watson

198 Dynamic and Structural Geology —A MacLean Department 2, III Year, 1 hour per week, first term Lectures on geological forces and their effects Part

Lectures on geological forces and their effects Particular attention is given to those aspects of the subject which apply in mining.

199 Precambrian Geology -E S Moore

Department 2, IV Year, 2 hours per week, first term

Lectures on the Precambrian formations of Canada—their rocks, distribution, relationships, and economic features Briefer aecounts are given of similar formations in the United States and elsewhere

Works of Reference —Reports of the Geological Survey of Canada and of the Ontario Department of Mines, Reports of the United States Geological Survey.

200 Mining Geology -E S Moore

Department 2, IV Year, 2 hours per week, second term

A course of lectures on geological problems associated with mining, typical mining regions in Canada, the United States, and elsewhere being discussed from the geological side. Works of Reference —Mineral Industry, Ore Deposits of United States and Canada—Kemp, and the works mentioned under Course 199

201 Geological Ercursions -The Staff in Geology.

Department 2, IV Year

During October and November weekly trips will be made to points of interest near Tojonto

202 Economic Geology -E S Moore

Department 2. III Vear

(a) Ore Deposits 1 hour per week, both terms

Discussion of the origin and classification of ore deposits, the mode of occurrence of the chief ores, and statistics of production Special attention is given to the metals mined in Canada

(b) Economic Geology of the Non-metals 2 hours per week, second term

Lectures on the origin and mode of occurrence of the valuable nonmetallic substances—coal, oil, building stone, gypsum, cement materials, etc

Works of Reference —Economic Geology—Ries, General Economic Geology—Emmons, Ore Magmas—Spurr, Coal—Moore, Practical Oil Geology—Hager

203 Economic Geology -E S Moore

Department 2, III Year, 2 hours per week, second term

Laboratory work on ores, manner of occurrence, vein structure, etc., also the evamination and construction of geological maps and sections of typical mining regions

204 Special Geology -A MacLean

Department I, Option e, IV Year, I hour lecture and 1½ hour laboratory work per week, second term

A lecture and laboratory course on superficial geology, physiographic control, water geology, etc

Works of Reference —Political and Commercial Geology—J E. Spuir

HVDRAULICS

205 Hydraulics -R W Angus

Departments 1, 2, 3, 6, 7, III Year, 2 hours per week, both terms This is a course of lectures in hydraulics devoted to the development

and discussion of formulae relating to the flow of water in pipes, the measurement of discharge by various methods, such a orifices and werrs, the conditions of flow obtaining in open channels, artificial and natural, and in pipes flowing partially full, together with other kindred subjects. The object of this course is to provide the student with a good working knowledge of the fundamental principle of hydraliules, such is useful in plactical work, and is necessary to the intelligent investigation of more advanced problems, such as the design of water supply, senerage and irrigation system, and water power inlents.

206 Hydraulse Laboratory -R W Angus, R Taylor

Departments 1, 3, III Year, one 3 hour period per week, second term Departments 6, 7, III Year, 4 periods of 3 hours each

The work in this course is intended to illustrate the lecture course given in hydraulies and to give the studient some working acquaintance with the formulae met with in practice. Experiments are made to determine the coefficients for orifice of the various types used in practice and for a weir. The results of these experiments are used in measuring the discharge in subsequent experiments on meters and for the determination of hydraulic resistances in various cases of flow in papes. The complete course illustrates very fully the application of the course of lectures to actual cases.

207 Hydraulics -R W Angus

Departments 1, 3, 7, IV Year, 1 lecture per week, both terms

A course of lectures dealing with the various problems of unsteady flow such as occurs in power lines, pestocks, etc. Much of the work is done by the process of antilimetre integration, and the lecture work is supplemented by problems solved by the students in the work rooms, the time for which is included in course 200 Surges, water hammer, stream flow data, etc., are discussed.

The problems of collection of water for power purposes, use of the mass curve, ramfall and evaporation, turbine governing, etc., are also treated

208 Hydraulics -R W Angus

Departments 1, 3, 7, IV Year, 2 lectures per week, both terms

The most important question considered and to which most of the lectures are devoted as the theory of turbines and centrifuga pumps, the effect of the design on the speed, discharge and efficiency being fully taken but The course includes the selection of turbines and pumps for given service intakes, draft tubes and all matters connected with bydraulic power plants

Text Book -Water Power Engineering-Mead

209 Hydraulics.-R W Angus, R Taylor

Departments 1, 3, 7, IV Year, about 10 hours per week in 3 hour periods, both terms, Department 3, Option (c), first term only A laboratory course devoted to experimental work on turbines of various types and centrifugal and turbine pumps and other similar devices. This experimental work is arranged to illustrate the lectures on turbine and pump design. The experiments are made on two large turbine pumps used in the laboratory supply, as well as on apparatus specially designed for instruction. Various methods of measuring water-power and the efficiency of machines are also given. A list of the equipment now available, and which is used in this course, is given at the end of the Calendar.

) Hydraulic Laboratory -R Taylor

Departments 2, 8, IV Year, 3 hours per week, second term A laboratory course of experiments on orifices, weirs and meters

L. Hydraulics -R Taylor

Department 1_b, 1_e, IV Year, one hour lecture per week, first term A laboratory course of 3 hours per week, first term, on measurement of water, flow in open channels and on pumps

! Hydraulics -R Taylor

Department 3, IV Year, Option (c), one hour lecture per week, both terms

A lecture course on pumps and other hydraulic machinery

HEAT ENGINES

Steam Engines -E A Allcut

Departments 3 and 7, II Year, 1 lecture per week, both terms Departments 2 and 8, II Year, 1 lecture per week, first term

This course of lectures includes a discussion of the history and development of the steam engine and the functioning of its various component parts. Special attention is given to the theory and design of valves and valve operating mechanisms.

7 Thermodynamics -E A Allcut

Departments 3, 6 and 7, III Year, 2 lectures per week, both terms In this lecture course the laws of heat are used to develop the characteristic equation for a perfect gas and the use of thermal lines on the pressure-volume diagram. The properties of Carnot's cycle are then considered, followed by application of these principles to the hot-air engine, internal combustion engine and air compressor. A consideration of the properties of vapours and their application to the steam engine cycle concludes the course.

3 Heat Engines -E A Allcut

Department 3, III Year, 2 lectures per week, both terms
Departments 7 and 8, III Year, 1 lecture per week, both terms
The course in Heat Engines is intended to supplement the general
lecture course in Thermodynamics by showing the practical

applications of the laws discussed therein. A general consideration of the laws of combustion and heat transmission is followed by their application to boiler practice. Details of steam, gas and oil engines are described and the lectures are arranged as far as possible to supplement the information obtained in the laboratory course 210.

210 Thermodynamics and Mechanical Laboratory —R W Angus, E A Allcut, H A Tuttle

Department 3, III Year, one 3 hour period per week, both terms
Department 7, III Year, 2 hours per week, first term, 12 hours per
week, second term Time to be in three-hour periods

This laboratory course is designed to assist in a clearer understanding of thermodynamics, machine design and mechanics of mechanics of mechanics of the control of the con

220 Thermodynamics -E A Allcut

Departments 3 and 7, IV Year, 2 lectures per week, both terms

This is a continuation of course 217, the general the modynamic theory being studied from the conception of the thermodynamic surface. The theory of the flow of gases and vapours through onfoces, nozzles and pipes is then discussed and its application to the vanous forms of tubines is outlined. Following this, the principles of refigeration, binary fluid engines and internal combission are dealt with

221 Heat Engines -E A Allcut

Departments 3 and 7, IV Year, 1 lecture per week, both terms

This course is a continuation of the lectures on heat engines given in the Third Year, with special application to the steam power plant. The causes of the various losses occurring in steam engines and the considerations that influence them are studied in detail. Special attention is given to condensing plants, consumption records and other factors upon which the efficiency of a nower plant depends.

222 Thermodynamics —R W Angus, E A Allcut, H A Tuttle Departments 3 and 7, IV Year, about 9½ hours per week, in 3 hour periods

The work in this year is a continuation and extension of the work covered in the third year laboratory course Careful tests are made of engines of various types, such as simple, tandem and cross-compound steam engines, steam turbine, refrigerating machine, injectors and steam purpas, etc., and an application is made of Hirn's analysis and the entropy diagram to the results obtained. A complete set of experiments is made on each machine and the result plotted so as to show clearly to the student the effect of various alterations in the adjustment of the engine on the resulting efficiency.

Several modern gas and gasoline engines give ample opportunity for the study of this type of engine, and facilities are provided for sampling the gas supply and exhaust

Two experimental stacks and three boilers enable results to be obtained on boiler efficiency and chimney draft

223 Thermodynamics -E A Allcut

Department 1, III Year, 1 lecture per week, both terms

Departments 2 and 8, IV Year, 1 lecture per week, both terms
The general principles of thermodynamics, the properties of a perfect

as and their application to the Carnot cycle are first studied.

This is followed by a consideration of the air compressor cycle, some details of air compressor operation and the theory of the flow of air through pipes and onfices. The properties of vapours and the principles of steam engine operation are also discussed.

224 Thermodynamic Laboratory —H A Tuttle Departments 1 and 6, III Year, 7 three-hour periods, Departments

2 and 8, IV Year, 3 hours per week, first term
A course of experiments with steam and gas engines, compressed air, etc

225 Moisve Power -R W Angus

Department 1, Option e, IV Year, one hour per week, both terms A course of lectures covering boiler capacity, locomotive horse-power, tractive effort, etc, necessary to carry specified trains over different conditions of madbed

226 Heating and Ventilation -I H Parkin

Department 3, IV Year, Option (c), one hour per week, bot terms This course is designed to give a working acquaintance with the essential engineering principles underlying the practice of heating and ventilation work

227 Refrigeration -J H Parkin

Department 3, IV Year, Option (c), one hour per week, both terms A course covering the principles underlying mechanical refirgeration, physical properties of different refirgerants, and a study of the various standard types of refirgerating machines and systems

228 Thermodynamics Laboratory —II A Tuttle Department 3, IV Year, Option (ε), three hours per week, both

terms
A laboratory course on heating, ventilation, refrigeration, etc

MACHINERY

- 230 Theory of Mechanism -I H Parkin
- Departments 2, 3 and 7, II Year, lectures 2 hours per week, problems
 11 hours per week, both terms
 - This course of lectures treats of the elementary construction of machines and of the motions of the vanous parts. Methods of determining linear and angular velocities, methods for the solution of elementary problems involving forces and methods for the determination of the mechanical efficiency of unclunes are discussed. Velocity diagrams, craite, effort, and torque diagrams are plotted. Cams, toothed gearing and various types and anothershops of trains of seams are considered.
 - Applications of the methods described are made to various machines including engines, machine tools, link motions, etc., and the lecture work is followed up by the solution of numerous examples in the drafting room

Text Book -Theory of Machines-Angus

231. Mechanics of Machinery -I H Parkin

Departments 3 and 7, III Year, 1 hour per work, both terms

This course is devoted to a consideration of the speed regulation and balancing of machines, and comprises lectures on the theory of various forms of governors, kinetic energy of machines and determination of speed fluctuations, the proper weight of flywheel, acceleration and merita effects, and balancing

The methods of analysis employed are those developed in course 200 Text Book —Theory of Machines—Angus

232 Elementary Machine Design -U C Holland

Departments 3, 6 and 7, II Year, 1 hour per week, both terms
This is a preparatory course intended to familiarize the student with

Ins is a preparatory course intended to familiarize the student with the different shop methods and processes, essting, forging, machining, etc, used in the production of machine parts, to enable him to make proper provision in the design of such parts to facilitate their production

In addition, the various standards, machine and pipe threads, tapers, pipe fittings, etc., are described and mechanical drafting room practice explained

Tolerances, limits, fits and gauges are discussed

The design of simple machine fastenings and parts is taken up and cxamples worked out in the drafting room

233 Machine Design -J H Parkin and U C Holland

Departments 3 and 7, III Year, 2 lectures per week, both terms
The design work averages 7 hours per week for Department 3, and
4 hours per week for Department 7, the periods to be of not less
than 2 hours' diversion.

- The lectures in this course deal with the design of various machine elements, including shafting, bearings (journal, thrust, ball and roller), bclts, pulleys, fly-wheels, clutches, springs, machine frames, etc.
- The problems worked out in the drafting room are planned to include the design of all of the above and with a view to developing the student's judgment and sense of proportion in design
- Text Book -- Machine Design-Lcutwiler
- 234 Machine Design -J H Parkin and U C Holland
 - Department 6, IV Year, Department 8, III Year, 1 lecture per week, both terms
 - The design work occupies 3 hours per week for the second term only The lectures in this course deal with the design of various machine elements, particularly those likely to be met with in Chemical and Metallurgical plants
 - The prob'ems worked out in the drafting room are designed to give the student training in the general lay-out of shafting and plant machinery, as well as in the design of simple parts for chemical and metallurgical apparatus
 - Text Book -- Machine Design-Leutwiler
- 235 Advanced Machine Design J H Parkin and U C Holland Department 3, IV Year, 2 lectures per week in the first term, 1 lecture per week in the second term
 - The design work averages 6½ hours per week for Option (a), 6 hours per week for Option (b) and 7 hours per week for Option (c), the periods to be of not less than 2 hours' duration
 - The work of this course is devoted to the design of complete machines with the object of groung the student piactice not only in the design of various details, but also in working in the various elements into a machine of smooth and harmonious design. The machines chosen as examples for design involve as many new machine elements as possible in order to broaden the training of the student.
 - Text Book -- Machine Design-Leutwiler

MATHEMATICS

23b Calculus -A T DeLury

All Departments, I Year, 2 hours per week, each term

Treatment of limits with special reference to those pertaining to exponentials and logarithms Derivation of the fundamental formulae of the differential and integral calculus, with early application to simple problems concerning graphs, areas, volumes, lengths, etc 237 Calculus -S Beatty and J L Synge

Departments 1, 3, 6 and 7, II Year, 1 hour per week, both terms Continuation of course 236 The elementary theory reviewed and extended Special attention to applications with problems in Engineering mostly in view

238. Analytical Geometry -I R Pounder

All Departments, I Year, 1 hour per week, first term, 2 hours perweek, second term

The course in Elementary Analytical Geometry covers the more familiar propositions in connection with the straight line, circle, parabola, ellipse and hyperbola. The subject is treated so as to illustrate the general methods of analytical geometry.

239 Trigonometry, Spherical -L B Stewart

Department 1, II Year, 1 hour per week, first term

A course of lectures includes the derivation of formulæ and their application to the solution of triangles and to practical problems

Text Book,—Spherical Trigonometry—Todhunter and Leatham

240 Least Squares, Method of -L B Stewart

Department 1, III Year, 1 hour per week, second term

The course of lectures includes. The general principles of probability, the law of error, direct measurements of equal and different weights, mean square and probable errors, indirect measurements, conditioned observations, applications to empirical constants and formule, etc.

Text book -Least Squares-Merriman.

METALLURGY

241 Elementary Metallurgy -G A Guess

Departments 1, 2, 3, 6 and 8, II Year, 1 hour per week, second term A course of about 12 lectures on furnace metallurgy and present practice, with special reference to iron and steel

242 Fuels and Combustion -G A Guess

Department 8, II Year, 1 hour per week, both terms A lecture course dealing with fuels, their use, preparation, calorific

value and combustion

243 Metallurgy -G A Guess

Departments 2, 6, III Year, 1 hour per week, both terms

Fuels, temperature of combustion, specific heat, conductivity and problems thereon, chimneys, furnaces, refractories, outline of furnace metallurgy and hydro-metallurgy

244 Physical Metallurgy -O W Ellis

Departments 2, 3, 6 and 7, III Year, 2 hours per week, second term
The physical properties and structure of iron and steel and the more
common alloys

245 Metallurgy -G A Guess, J E Toomer

Department 8, III Year, 2 hours per week, first term, 1 hour per week, second term

A lecture course on General Metallurgy accompanied by 3 hours laboratory per week, first term, and 6 continuous hours per week second term

246 Physical Metallurgy -O W Ellis

Department 8, III Year, 1 hour per week, both terms

Changes of phase and of state, pyrometry, preparation of alloys, miscibility of metals, binary, ternary and complex alloys, the use of the microscope, with 3 hours laboratory per week, first term

247 Metallurgy -G A Guess, J E Toomer

Departments 2 and 6, IV Year, 1 hour lecture per week, both terms, 6 continuous hours laboratory per week, second term General metallurgy and metallurgical problems

248 Metallurgy Problems -G A Guess, J. E Toomer

Department 8, IV Year, 2 hours lecture and 4 hours laboratory, both terms

Metallurgical book-keeping, balance sheets, thermal balance sheets, methods and processes

249 Metallurgy -G A Guess

Department 8, IV Year, 1 hour per week, both terms

Critical reading and discussion of papers and articles, describing metallurgical processes or dealing with plant arrangement and construction Metallurgical flow sheets of typical plants

250 Physical Metallurgy -O W Ellis

Departments 6 and 8, IV Year, 1 hour lecture and 3 hours laboratory per week, both terms

251 Metallography -O W Ellis

Department 2, IV Year

A laboratory course of 3 hours per week, second term

252 Physical Metallurgy —O W Ellis

Department 1, IV Year, 1 hour per week both terms

The physical properties of metals and alloys used in Civil Engineering practice—specifications

253 Heat Treatment of Iron and Sted — O W Ellis Department 3, IV Year, 1 lecture per week, both terms Heat treatment of iron and steel, case carburizing, case hardening and malleableizing

MINERALOGY

255 Elementary Munetalogy -J E Thomson

Department 2, I Year, 2 hours per week, first term
After introducing the student to the chief chemical, physical, and
crystallographic characteristics of minerals, the course becomes
descriptive and deals with about one hundred of the minerals most
important from the industrial or secentific rount of year.

Text Book -Study of Minerals and Rocks-Rogers

256 Maneralogy -I E Thomson

Departments 6 and 8, I Year, 3 hours per week, one term
Introduction to determination of numerals by inspection and physical
tests

Text Book -Mineral Tables-Eakle

257 Primary Mineralogy -A L Parsons

Department 1, II Year, 2 hours per week, first term

A very brief introduction to the study of minerals and rocks

Text books -- Study of Minerals and Rocks--- Rogers, Hand-Book of Rocks--- Kemp

258 Mineralogy -I E Thomson

Department 2, I Year, 1 hour per week, first term, 3 hours per week, second term

Determination of minerals by inspection and by means of physical tests, introduction to blow-sipe practice

Text bool's -- Mineral Tables-Eakle, Determinative Mineralogy-

259 Mmeralogy -A L Parsons, I E Thomson

Department 1, II Year, 1 hour per week, first term, 2 hours per week, second term

Determination of minerals by inspection and by means of physical tests, study of common rock types and their identification

Text books -- Mineral Tables-Eakle, Handbook of Rocks-- Kemp

260 Elementary Petrography -T L Walker

Department 2, II Year, 1 hour per week

A course of lectures and laboratory work introducing the student to the macroscopic study of rocks

Text-books -- Handbook of Rocks-- Kemp

261 Mineralogy - J E Thomson

Department 2, II Year, 2 hours per week

Determination of minerals by means of the blow-pipe and physical

Text books —Mineral Tables—Eakle, Determinative Mineralogy— Lewis

262 General Petrography -A L Parsons

Department 2, III Year, 1 hour per week

Study of the chief rock-forming minerals and of some phases of petrography not covered in the course of the previous year

Text Books —Minerals in Rock-Sections—Luquer, Petrology for Students—Harker

263 Petrography -T L Walker

Department 2, III Year, 2 hours per week, both terms

Study of the chief rock-forming minerals, of rocks in thin sections and in hand specimens

Text books —Petrology for Students—Harker, Minerals in Rock Sections—Luquer

MODERN LANGUAGES

266. French — J H Cameron, Miss J C Laing, L A Bibet Required in Department 4, First Year, 2 hours per week, both terms, II and III Years, 1 hour per week, both terms.

Ferst Year

(a) Practice in translation of a selected text bearing on some phase of architectural study (for example, History of Art, History of France, extracts from great French writers), this text being used as a basis for discussion on various aspects of the student's work

 (b) A course in Conversation to encourage the student to acquire a speaking knowledge of the language

Second Year

(a) A reading course intended to introduce the student to the best literature on architectural subjects, prescribed text Guadet Eléments et théorie de l'architecture, to which may be added other reading selected from time to time

(b) Conversation course continued from I Year

Third Year

A continuation and development of the work of the II Year

287. German —G H Needler, B Fairley Required in Department 6, all years, 1 hour per week, both terms. An elementary course intended to train the student in the translation of scientific journals and treatises

268 Spanish -M A. Buchanan.

Departments 6, 8, II Year, 1 hour per week, both terms

An introduction to Spanish grammar, pronunciation and practice in reading Engineering Spanish

PHYSICAL TRAINING

269 Physical Training -G D Porter, D M Barton

Required in all departments, I and II Vears, and optional in the III and IV Years Students in the I and II Years must be medically examined at the beginning of the session and are directed to the form of physical work most suitable to their requirements. Those classified as Al may elect to take any form of competitive athletics during the season in which that form of sport is in

Military training in the COTC constitutes are option in Physical Training (see page 120)

SURVEVING

270 Surveying -S R Crerar

Departments 1, 2, 3, 7 and 8, I Year, 1 hour per week, both terms The lecture course includes the general principle, surveying that the chain, the compass and chain and the transit and chain, and level, the applications of trigonometry to inaccessible height and distances, mensuration of surfaces, co-ordinate surveying, division of land, etc.

Text books —Plane Surveying—Tracy, Theory and Practice of Surveying—Johnston and Smith, Elementary Surveying—Breed and Hosmer

271 Field Work -S R Crerar, J W Melson.

Departments 1, 2, 3, 7 and 8, 1 Year, 5 hours per week, first term The course comprase testing chans, practice in chaning, a complete survey of a piece of land with the chain and trainst, keeping of field notes, the use of the trainst and compass in surveying closed figures and traverse lines and in ranging straight lines, plotting by latitudes and departures, and otherwise computing

272 Surveying -W M Treadgold, E W Banting.

provement

Departments 1 and 2, II Year, 1 hour per week, both terms

This course of lectures takes up in detail, simple, reverse and compound curves as applied to railroad surveying. It also includes stadia, plane table and photographic surveying as applied to topographic work, and the main features of mine and hydrographic surveying.

areas Instrumental work with level, including roadway im-

Text books:—Henck, Searles, Allen (Field books for Engineers)
Theory and Practice of Surveying—Johnston and Smith, Surveying—Breed and Hosmer

273 Field Work -W M Treadgold, E W. Banting.

Department 1, II Year, 9 hours per week, first term

Department 2, II Year, 6 hours per week, first term

This course of instruction embraces all adjustments of the transit and level, nunor problems in triangulation and traversing—leveling and olane table practice

274 Surveying and Levelling -W M Treadgold

Department 1, III Year, 1 hour per week, both terms

This course of lectures takes up the work of the railroad engineer on construction, including profiles, cross sectioning, computation of volume of earthwork, overhaul, transition curves, laying out turnouts, frogs and switches, etc

Also a discussion of trigonometric and barometric levelling

Text books —Field Engineering—Searles, Railroad Curves and Earthworks—Allen

275 Survey Comp —W M Treadgold, S R Crerar, E W Banting, J W Melson

Departments 1 and 2, III Year

This course includes

- (a) Secondary Triangulation and Base Line Measurements
- (b) Stadia, Plane Table and Boundary Traverses
- (c) Highway and Railway Location
- (d) Cross Sectioning and Computation of Earthwork
- (e) Stream Gauging and Discharge Measurements
- (f) Hydrographic Surveying
 (e) Photographic and Micrometer work
- (h) Stadia and Plane Table Topography
- (a) Stadia and Plane Lable Lopograph (a) Mine Surveying
- (1) Observations for Time. Azimuth and Latitude. This work is
- taken at Gull Lake Camp See page 31
- 276 Raslroad Location and Design -W M Treadgold

Department 1, Option "e," IV Year, 1 hour lecture per week, both terms, about 8 hours per week, both terms, in the drafting room

This work will consist of an original survey for a railroad some one or two miles in length, the work to be carried out according to the most modern methods of location. Upon the completion of the field work, the complete survey will be plotted and a line adjusted to it. This will be staked out, profiles taken and the computation made of the earthwork and the preparation of overhaul diagram compiled for determination of haul and borrow. In the second term the design of track work, yards and practical problems will be taken up and special problems assigned

ADDITIONAL FOURTH YEAR COURSES

280 Sandary Engineering -Peter Gillespie

Department 1b, IV Year, 1 hour lecture per week, both terms, 3 hours laboratory, first term, and 6 hours, second term

Consideration is given to the problems of water supply, sewerage and sewage disposal as viewed by the engineer. Some practice in the design of works from assumed data is afforded. Excursions to places of interest are arranged from time to time.

Reference Books —Public Water Supplies—Turneaure and Russell, American Sewerage Practice—Meticalf and Eddy, 3 vols

281 Highway Engineering -A T Laing

Department Ib, IV Year, 1 hour lecture and 3 hours laboratory per week, both terms

This course of instruction deals with the design, construction and maintenance of public highways and street pavements, also with the properties of the materials employed. Accompanying the course of fectures is a laboratory course dealing with the various bituminous and non-bituminous materials of construction. Excursions to places of interest are arranged for during the fall term.

282 Municipal Seminar -P Gillespie, A T Laing

Department 1h, IV Year, 3 hours per week, both terms

This time is devoted to reading, essay writing and discussion of problems relating to highways, transportation, town planning, sanitation and kindred subjects

283 Zymology -- H B Speakman

 $\hat{\mathbf{A}}$ study of the phenomena of fermentation and their industrial applications

THESIS

285 Thesis

Required in all Departments, IV Year, with the exception of Department 4, Architectural Design Option

Each student is required to prepare a thesis of between six thousand and seven thousand words on a subject approved by Council See circular of information

OUTLINE OF VACATION WORK

286 Construction Notes

11 Ye r Departments 1, 2, 3, 4, 6, 7

The construction notes required consist of neat and complete dimensioned sketches in pencil of any structures, machines or plants which may be of interest. Any object chosen should be represented and dimensioned in such a manner that it could be completely constructed from the notes as the only available information. (See page 29)

From students in Department 2, who have been actually engaged during the summer with Government or other approved geological survey parties, geological field notes will be accepted in lieu of construction notes

SCHOOL OF ENGINEERING RESEARCH

A School of Engineering Research, within the Faculty of Applied Science and Engineering, was established in the Spring of 1917 at the suggestion of the late Dean Ellis

The School is under the direct supervision of a Committee of Management composed of fifteen Members of the Faculty Council. To this Committee is enti usted the selection of researches to be undertaken under the auspices of the School, and the disposition of funds conducting them

The School was organized chiefly for the training of graduates in methods of iesearch, and for the carrying out of investigations. These latter may be problems relating to specific industries or raw materials and having a specific end in view, or general problems having to do with fundamental principles.

A number of research assistants are appointed annually in the various departments of the Faculty to carry on the work of research under direction of members of the staff. The faculties of the School are also open to graduates who desert to penetrate more deeply into particular phases of experimental work, or to undertake unvestigations either suggested by members of the staff or arising from their own work since graduation

Address communications to the Secretary—Professor Maitland Boswell, Ph D

ADVANCED COURSE IN HYDRO-ELECTRIC POWER

In view of the importance of Hydro-Electric power in Canada, further facilities are offered to those graduates who wish to supplement the present extensive undergraduate courses bearing upon this subject Graduate studies may be pursued by candidates for the Degree of Master of Applied Science as soon as desired after graduated.

To those returning after satisfactory experience in some approved phase of Hydro-Electic work, somewhat more specialized courses may be given than are possible with very recent graduates. The Engineering Alumin Association of the University has expressed its willingness and desire to assait such candidates in obtaining suitable employment to fit them for these courses of study, but such courses are available only to those with the proper undergraduate preparation.

Graduates who may wish to avail themselves of the arrangements proposed are advised to communicate with the Dean

It should be noted that candidates for post-graduate degrees register with the Secretary of the School of Graduate Studies For further particulars see Calendar of the School of Graduate Studies and page 103 of this Calendar."

MASTER OF APPLIED SCIENCE DEGREE MASTER OF ARCHITECTURE DEGREE

- 1A A candidate for the degree of M A Sc shall hold the degree of B A Sc of this University or a degree from some other University recognized as equivalent by the Council of the School of Graduate Studies
- 1B A candidate for the degree of Master of Architecture should hold the degree of Bachelor of Architecture or the degree of Bachelor of Applied Science in Architecture of this University or a degree from some other University recognized as equivalent by the Council of the School of Graduate Studies.
- 2 He shall register with the Secretary of the School of Graduate Studies at the beginning of the academic year
- 3 Not later than November 1 of his academic year, he shall submit to the Secretary for acceptance by the School of Graduate Studies the title of his proposed thesis as approved by the department concerned.
- Not later than April 30th of his academic year, he shall present evidence to the Council of the School of Graduate Studies that he has spent not less than one candemic year of the department concerned as a student enrolled in one of the following departments on a course of study approved by the department —Crvi Engueering, Miming Engineering, Mechanical Engineering, Architecture, Chemical Engineering, Studies and Jurgeal Engineering, Metallurgeal Engineering
- 5 Not later than April 30th of his academic year, evidence that the candidate has satisfactorily met all the requirements of the department with regard to thesis and to such examinations as the department shall require, shall be forwarded to the Council of the School of Graduate of Studies through the sub-committee administering the regulations governing the degrees of M A Sc and M Arch

PROFESSIONAL DEGREES

The attention of graduates is directed to the following regulations respecting professional degrees

The following degrees have been established Civil Engineer (CE), Mining Engineer (ME), Mechanical Engineer (ME), Electrical Engineer (EE), Chemical Engineer (Chem E), Metallurgical Engineer (Met E), subject to the following regulations

- 1 A candidate for one of the said degrees shall hold the diploma of the School of Practical Science or of the Faculty of Applied Science and Engineering or the degree of Bachelor of Applied Science
- 2 He shall have spent at least three years after receiving the diploma or the degree in the actual practice of the branch of engineering wherein he is a candidate for a degree
- Intervals of non-employment or of employment in other branches of engineering shall not be included in the above three years. It shall not be necessary that the several periods requisite to make up the said three years be consecutive.
- 4 Satisfactory evidence shall be submitted to the University examiners as to the nature and length of the candidate's professional experience for the purpose of clauses 2 and 5.
 - The Examiners may satisfy themselves by oral or written examinations in regard to the candidate's experience and competence
- 5 The candidate shall prepare an original thesis on some engineering subject in the branch in which he wishes a degree, the said thesis to be accompanied by all necessary descriptions, details, drawings, bills of quantities, specifications and estimates
 - The candidates may be required at the option of the Examiners to undergo an examination in the subject of this thesis
- 6 Notice in writing shall be sent to the Secretary not later than the first day of November, informing him of the degree to which the candidate wishes to proceed and of the title of his proposed thesis for the approval of the Examiners
- 7 The evidence under clause 4, and the thesis, with accompanying papers, described in clause 5, shall be sent to the Secretary not later than the first day of April
- 8 The candidate shall be required to present himself for examination in the month of April at such time as may be arranged by the Examiners
- 9 The fee for any one of the said degrees shall be twenty dollars, and shall be paid to the Bursar not later than the first day of April

- 10 The thesis, drawings, and other papers submitted under clause 7 shall become the property of the University
- 11 Nothing in this statute shall prevent any candidate from receiving more than one of the said degrees, provided he has the necessary qualifications for each degree. An interval of three years must elapse between the granting of any two degrees under this statute.
- 12 All communications must be addressed to the Secretary of the School of Graduate Studies

CERTIFICATE FOR HIGH SCHOOL ASSISTANT

The Calendar of the Ontario College of Education provides for the admission of the holder of a degree in Science to the Course for a High School Assistant's certificate The regulation requires that the applicant shall submit with his application

"His certificate of graduation as Bachelor or Master of Arts, Bachelor or Master of Science, Bachelor of Commerce, Bachelor of Agriculture, or Bachelor of Applied Science, from a British University, after the regular university course approved by the Minister of Education at to entrance requirements and as to content of the undergraduate courses Each applicant must have Upper School or Honour Matriculation standing in English and History and Mathematics or the equivalent of such standing "

LABORATORY EQUIPMENT

THERMODYNAMIC AND MECHANICAL LABORATORY

The University in 1919 completed the crection of a large, well-equipped building for the accommodation of the steam, gas, mechanical and hydraulic laboratories A more complete description of the laboratories has been published elsewhere, so that the present description is only intended to give the main features

The part of the building set apart for thermodynamics and other mechanical work is the ground floor of a room 60 ft x 155 ft. This room is lighted entirely from the roof in a very perfect way. A part of the space 40 ft wide running the entire length of 155 feet is served by a 3 ton travelling crane and contains the following equipment

50 h p Brown engine with separate tackets on both heads and barrel of cylinder

Two-stage Rand air compresor having compound steam cylinders. each fitted with Meyer cut-off gear The low pressure air cylinder has Corlies inlet gear

- 30 hp high-speed Leonard tandem compound engine with shaft governor
 - 15 h o high-speed McEwan engine
 - 75 h p two-line compound Willans engine 25 h p General Electric steam turbine

Two 15 h p. Leonard engines with different types of valves, which are used for valve setting

There are also two surface condensers with air pumps so arranged that any engine in the laboratory may be made to exhaust into the atmosphere through an open heater or into one of the condensers, the change from one arrangement to the other being accomplished in a few minutes without the and of valves

The laboratory further contains

A 3 ton York refrigerating machine with tanks

An Amsler transmission dynamometer

Apparatus for testing injectors and steam pumps Numerous other pieces of apparatus and instruments

The work on internal combustion engines and producers is performed on the following

- 18 h p Canada suction gas producer
- 14 h p. National gas engine arranged for various compressions and points of ignition

- 10 h p. Fielding and Platt engine for city gas or coal oil, having various adjustments
 - 8 h n Otto gas engine
 - 25 h n Allen semi-Diesel engine
 - 25 h n tractor gasoline engine 200 h n. Sprague electric dynamometer

Various accessories to above machines

Steam for the laboratory is supplied by two 50 h p and one 100 h p Bahcock and Wilcox boilers, the latter having an internal superheater These boilers are located in a separate boiler room. They are used for experimental work only and are fitted up for testing. The gases pass up through two independent chimneys, and these have been arranged so that the draft and other conditions in the chimney at any point of its height may he examined.

In smaller work-rooms off the main laboratory are placed belt and oil testing machines, apparatus for testing the efficiency of gears and machines. and for experiments in the balancing of machinery

HYDRAULIC LABORATORY

The hydraulic laboratory occupies two floors each 40 feet x 112 feet. which are well lighted by large windows on the side and end

The water for the experimental work is pumped through the various pieces of apparatus from a well by means of two turbine pumping units. both of which are driven by a Belliss and Morcom compound engine of 125 h p running at a speed of 525 revs per minute. Both engine and number have been installed with a view to using them in experimental work as well as for supply of water for other apparatus used in the laboratory.

The numping units are capable of delivering one cubic foot of water per second against heads of 250 feet and 300 feet respectively These units are designed and connected up so that they may be run in series giving the above discharge at 550 feet head, or they may be run in parallel giving two-stage pumps mounted on a common base and driven by a single pulley. and the construction and piping are such that each two-stage pump may be driven separately or that all may be driven at once, discharging separately one cubic foot per second at about 125 feet head through each of four independent pipes, or else the pumps may be run in series or in parallel The scheme is thus well adapted to laboratory work, and under the heads used on reaction turbines about six cubic feet per second may be obtained

In addition to this there is an electrically driven pump capable of delivering six cubic feet per second at a head of sixty-five feet and which is most helpful in turbine testing Attention is called to the special turbine testing flume described below

The laboratory further contains a large vertical steel tank 54 feet diameter by 34 feet with arrangements for the attachment of nozzles and other mouthpieces, etc. Connections are also arranged for reaction turbines, the tank acting as a reservoir

The discharge from the turbines or nozzles is measured in a weir tank nearly 6 feet wide and 21 feet long, containing a contracted weir 4½ feet wide. This weir may be calibrated by two weighing tanks, each having a capacity of about 240 cubic feet.

There are three reaction turbines and two impulse wheels all ready for experiment, the power being measured by brakes and the water by weir or orifices. Amongst the reaction turbines may be mentioned the one designed and built by Eacher Wyss & Co. specially for the laboratory

A new and specially designed turbine testing flume has recently been added to the laboratory, the machinery for which has been largely furnished through the kindness of the Dominion Biggineering Works, Montreal, and Wim Cramp and Sons, Philadelphia. This flume is supplied with water by a Moody spiral pump of twelve cubic feet per second capacity and at present there are two turbines, one of the propeller type, and also it was special draft tubes and more will be added. This provides an excellent concordunity for excement and are research.

Smaller orifice and weir tanks, each about 3 x 3 x 12 feet with necessary measuring tanks, are arranged for instruction in coeficients of various kinds and practice with weirs and orifices

A Venturi meter and other meters, also an hydraulic ram and similar devices are available for testing, and good facilities have been arranged for investigating friction and other properties of pipes and fire hose

For special investigations on turbine and centrifugal pumps, other pumps in addition to those already described have been arranged

The basement of the laboratory contains an open trough 5 feet wide, about 110 feet long, with a large weir at one end. It is intended to use this trough for experiments on the flow in open channels, for measurements of large discharges by means of the weir, and for experiments with current meters and Ptot tubes.

Numerous pieces of smaller apparatus, together with all instruments required, have also been provided, and the laboratory equipment is be lieved to be very complete

AERODYNAMIC LABORATORY

The Aerodynamic Laboratory is located in a separate special building The Laboratory is fully equipped with an improved 4-ft. Royal Aircraft Establishment type wind channel, aerodynamic balance, micromanometers and other necessary instruments

Air speeds of 80 feet per second can be secured in a stream of great steadiness and uniformity and higher speeds with some sacrifice in steadiness

The work done in the Laboratory includes the investigation of problems in aerodynamics, tests of air craft components, and complete machines, rating of meters, ventilators, indiators, etc., and the study of the effect of wind pressure on structures, chimneys, etc

DONATIONS TO THE THERMODYNAMIC AND

The following donations to the equipment of the laboratories have been made through the kindness of those mentioned

50 h p Wheeler Surface Condenser, presented by Mr F M Wheeler, New York

Blake Feed Pump, presented by the manufacturers

 $\mathfrak g\text{--}\mathrm{inch}$ New American Turbine, presented by Wm $\,$ Kennedy & Sons, Owen Sound, Ont

Two Crown Water Meters, presented by the National Meter Co , New York, through Mr $\,M\,$ Warnock, Toronto

Rock Drill, presented by Sullivan Machinery Co , New York, through Mr A E Blackwood, '95

· Marine Gasoline Engine, presented by Canadian Fairbanks Co , Montreal

Two engines with different types of valve, presented by Messrs E Leonard & Sons, London, Ont

Bundy trap from American Radiator Co , through Messrs Russell & Gifford

Dunham steam trap from C A Dunham Co

Sectional models of valves from American Radiator Co.

Sectional model Mason Reducing Valve by Russell & Gifford

Tanks, etc , by John Inglis Co

Pressure Fan from Sheldons Ltd , Galt

Model water turbine test runner from Wellman, Seaver Morgan $\,{\rm Co}$, $\,{\rm Cleveland},\,{\rm O}$

Equipment for new turbine testing flume from Dominion Engineering Works, Montreal

Multi-stage pump from Goldie and McCulloch, Galt Hytor vacuum pump complete with motor, etc., from Nash Engineering

Co, Norwalk, Conn, through A S Leitch and Co, Toronto

Model water turbine runners from Allis-Chalmers Co , Milwaukee Section of Trident water meter from Neptune Meter Co , Toronto

In addition to the above, other firms have materially assisted by offering apparatus at or below cost price, among whom may be specially mentioned, The Canadian Raud Drill Co., Sherbrooke, Quebec

The following machines are gifts from the Royal Air Force One S.E.5 Scout

One Avro Training Biplane
Liberty Aeroplane Motor 400 h p

200 B h p Siddeley Deasey Aero Engine

120 h p Beardmore Aero Engine

Curtis Engine (Sectional)
Hispano Suiza Aero Engine
80 h p Le Rhone Rotary Engine
Clerget Rotary Engine
Gnome Monosoupape Engine
Admiralty Rotary Engine 150 h p

Models of Engines, etc., and numerous spare parts

ENGINEERING PHYSICS LABORATORIES

Illuminating Engineering

The laboratories for this work are equipped with 8 metro optical benches of maturation in the fundamental theory of optical instruments. There is also a general equipment consisting of one or more of the following telescopes, field glasses, microscopes, spectrometers, excitants, range finders, polarizing instruments, etc. For work in illumination there is provided a 8 metre precision photometers with integrating mirrors and rotator, integrating spheres, radial distribution photometers, poptor-photometers, spectro-photometers, spectro-photometers, spectro-plottometers, spectro-plottometer

Hydrostatic Laboratory

The Hydrostatic Laboratory is supplied with various types of hydrometers, hydrostatic balances, pumps, gauges, etc

Heat Laboratory

The Heat Laboratory is equipped with a full supply of colonmeter and accessories for determination of latent and specific heat, expansion apparatus, air thermometer, apparatus for verification of Boyle's law and pressure and boding curve, and for determination of the absolute expansion of mercury. Callendar's apparatus for determination of the mechanical equivalent of heat Calonmeter for the determination of the value of solid, liquid and gaseous fuels.

Acoustical Laboratory

The Acoustical Laboratory as provided with sonometer, area, forks ordinary and electric, Lissajous' and Melde's apparatus, organ pipes of various forms, manometric flame apparatus and a special equipment for work in architectural acoustics consisting of torsion chronograph, electroneumatic work chest and standardized organ pipes and other accessories

The following donations have been received for work in Illuminating Engineering, and are gratefully acknowledged

Sample board of electric fittings from the Harvey-Hubbell Co, Toronto, Sample board and easel, showing types of condulets, from the Crouse-Hinds Co. Toronto.

Demonstration sets to show construction of incandescent electric light bulbs, from the Canadian Sunbeam Lamp Co, Toronto, Lamp rack illustrating various types of incandescent electric bulbs, from the Canadian Westinghouse Co., Hamilton,

Sample board illustrating types of industrial reflectors and elexit and other fittings. Benjamin Electric Co., Toronto

Gasoline Mantle Lamps, Coleman Lamp Co, Toronto

PHOTOGRAPHIC AND PROJECTION LABORATORIES

The Photographic Laboratory contains a supply of small cameras for the use of students, enlarging cameras, printers, blue printing machine and the necessary dark rooms

This Department also carries on a photographic and projection service for all Faculties and Departments of the University. The equipment for this work consists of cameras for making photographs up to full plate size, enlargers, photo-emerographic apparatus, motion picture cameras for both gross and micro work, with the necessary developing and printing machines, a rotary blue pint machine, a photostat, etc.

For projection service there is a motion picture projector and a number of projection lanterns for service in any University Building

ELECTRICAL LABORATORIES

The Department of Electrical Engineering is located in the Electrical Building The accommodation includes quarters for staff, library, lecture rooms, laboratories, stores, and shop for repairs and construction

Services —Three-wire direct-current, 110 kw, from the University power house, automatically regulated at our end of constant voltage of desired value at our main switchboard. Three-phase, 60 cycles, 60 k v a, 115 volts, automatically regulated as to voltage and frequency. Three-phase, 25 cycles, 30 k v a, automatically regulated as to voltage and frequency. Every laboratory has all three services available at convenient places. There are three main boards, one for each floor. A system of special trunk fines between boards, and tree systems on each floor, enable easy arrangement of any desired special connections from any laboratory to any other.

Alternating current laboratory—Area 28 x 110 ft, service acts 60 and at the 25-cycle, 15 k v a. Two 60-cycle and two 25-cycle, 15 k v a. Two 60-cycle and two 25-cycle, 15 k v a. Two 60-cycle and two 25-cycle, 15 k v a. Two 60-cycle and two 25-cycle, 15 k v a. Two 60-cycle and wound rotor induction types, repulsion and other single-phase types, unity power factor motor, polyphase motor with variable speed shunt characteristics and speed range of 4 to 1, transformers, single and three-phase, constant-current transformers with load of series are lamps, lamp racks, reactors, condensers, brakes, etc. oscillographs, indicating, graphic, grephic, are recording, and demand meters of the best makes, all arranged to facilitate a very general line of experimental work.

Direct current laboratory —40 kw 230 to 115 volt motor generator set with Tirrill regulator for special tests Numerous 5 kw to 10 kw motor-generator sets, shunt, series, compound motors, special interpole machines, loading racks, dynamometers, rheostats, numerous meters of first quality, etc. for any serie of study.

Measurements Laboratory —26 x 110 ft Pitted with very flexible storage battery service which can be connected to any deserved working place, d c three-were service, also 60 and 25-cycle three-phase everywhere, glavanometers, resistance boxes, bridges, shutat, potentiometers, standard cells, bond testers, ductor, megger, apparatus for measuring low resistances, artificial lipse for fault measurements, condensers, inductances, rails, cables, voltimeters, ammeters, wattimeters, dynamometers, etc., for executing the control of
High voltage laboratory —For various lines of study with voltages up to 200,000 volts Flexible and safe provision for control

Materials laboratories —One specially fitted for general work on conducting materials, one for magnetic materials, one for dielectric materials

Radio laboratory —Adapted for the measurement of various quantities of interest in this work, including the strength of incoming signals. One single conductor aerial 1,000 ft. long, one multi-conductor aerial 120 ft long

Standardizing laboratories —One students' calibration room for directcurrent meters, another for alternating-current meters. A standards room, constant temperature, for master standards of voltage, resistance, current, power, etc.

Research laboratories -Four rooms set apart for this work, in combination with facilities of the other laboratories

Design laboratory—Arranged for calculation work on apparatus selected to illustrate essential principles

CHEMICAL LABORATORIES

The Chemical laboratories are situated in the western half of the Chemistry and Mining building, on the first and second floors. The rooms are large and well lighted, and are supplied with the usual modern equipment.

The first and second year laboratory for qualitative work has accommodation for 112 students, each working space being supplied with wate gas and fume cupboard. The laboratory for quantitative analysis will accommodate 48 students, and is supplied with commodous fume cupboards and all necessary apparatus. A laboratory with working places for 38 is provided for the students engaged in the study of technical chemistry, it is equipped with appliances for the preparation and testing of chemical products. Laboratories for fourth year students with accommodation for twenty workers has been fitted up. Each of these laboratories has its own balance room adjoining furnished with instruments from the best makers and adapted to the particular objects in view.

In addition there are rooms set apart for research, for gas analysis, and a specially constructed fireproof laboratory for combustion, crucible and bomb furnaces. Each of these laboratories is supplied with apparatus of the most approved design, providing excellent facilities for the prosecution of work in analytical and technical chemistry.

A start has been made in equipping in a room in the basciment, set apart for the purpose, as a laboratory for carrying on chemical operations on a small factory scale

ELECTROCHEMICAL LABORATORIES

The Electrochemucal laboratories, which are situated in the Chemistry and Mining building, are provided with special facilities for electrolytic work, including a large storage battery and electroplating dynamo with tanks as well as a good set of apparatus and electroal measuring instruments. The experimental work on electric furnaces is carried out in a large furnace room in the basement, occupied jointly by this Department and the Department of Metallurgy. The equipment for this purpose comprises a 120 KW, 11 ovd its generator supplying direct cutient through a switchboard, rheostars, circut-breaker and instruments to a set of distributing bus-bars, and a 200 KV-a transformer stepping down from 2000 volts to 30-120 volts in 3 and 6 volt steps, which supplies alternating current at 25 cycles. There is a complete set of AC instruments, circut-breakers, oi-switches, relays, automatic regulating wanches, etc., and a Northrup high frequency furnace with its transformer is also installed

ASSAVING LABORATORIES

These are situated in the west end of the basement in the Mining Building They consist of five rooms, in addition to a library for study and an instructor's room. The East laboratory, 17 x 47 feet, and the West laboratory, 28 x 37 feet, are equipped with coal, oil, gas, and electric furnaces of various design Each room has a fume cupboard, and the necessary equipment for the wet work in connection with assaying Accommodation for twenty-four students at a time is provided, by individual work desks, each supplied with a balance, weights, fluxes, tools, drawers and lockers Common to both laboratories is the balance 100m which has a cement table on brick piers to support the bead balances These are illustrative of the types met in practice Adjoining the West laboratory is a research room A store-room adjoins the East laboratory where fluxes, clay ware and extra parts are kept In the instructor's room are stored a large number of ores and bullion, obtained chiefly from typical mining districts and metallurgical plants, for class use. The preparation of ours is done in the Milling building, where crushers, pulverizers and sampling devices are available A special laboratory sampler has been constructed for the purpose of giving samples for the student's assays, of indisputable

similarity, thus confining variations in results to the students' work. Other apparatus includes Guess-Haultain stationary electrolytic outfits, King rotating electrolytic apparatus, microscope, optical resistance and thermocouple pyrometers, hand and foot cupel machines, grinding plates and screens.

MINING AND ORE DRESSING LABORATORY

A detached building 72 ft x 70 ft contains the Mining and Ore dressing equipment It is heated, lighted and supplied with power from the central plant It is divided into several parts, the larger being 72 ft x 53 ft by 22 ft high

In this room is a 5-stamp battery with amalgamation plates, Wilfley table, Deister Plat-o table, Deister since table, buddle, and classifiers of sufficient size to make tests on lots of from one to ten tons

In addition are a set of small Wilfley tables, two 3-compartment jugs a 2 ft x 3 ft tube mill, a small experimental tube mill, agitators, small classifiers and other testing apparatus for experimenting on the failing rates of ore particles, slime settling, surface tension and flotation processes. These include a Case machine, a K and K machine, a Ruth machine, a Callow cell, etc. Water is supplied from a tank in the roof The machinery is all motor driven.

One portion of the room is devoted to rock drills of various types and other mining apparatus

The other part of the building, 72 ft x 17 ft, is divided into several rooms and contains a Hadfield's Gyratory Crusher, 16 in x 12 in Rolls, small crushers, screening machine, and sampling apparatus

The crushers are driven by a 80 h p motor in another room

The other rooms contain a Wetherill magnetic separator, screen sets, a smithing equipment, workshop and storage for small lots of ore. The larger part of the ore supply is accommodated in bins outside the building

The plant throughout is intended mainly for teaching and experimental purposes

There has recently been added apparatus especially designed for research work in various phases of rock crushing and granding —Ball Mills with plate glass ends for the study of ball paths, a small Ball and Rod Mill on ball bearings with dynamometer, a set of high grade ministure Rolls in ball bearings with integrating dynamometer

METALLURGICAL LABORATORIES

This laboratory, in the East end of the Mining building, occupies about 8,600 aq it on the basement floor and the same space immediately above on the ground floor The basement floor is divided into one large furnace room, a small hydrometallurgical room and two store-rooms. The furnace

room contains a motor driven Connerwelle blower, several gas fixed furnaces, two small blast furnaces, and a small of hearth Wedge roasting furnace. The larger electric furnaces of the Department of Electrochemistry are in this room. Some are supplied with direct current, others with AC from a 200 KVA transformer. A system of flues, with hoods over all the furnaces, leads through a Cottell preceptator of the Rathbun type talong current as 50,000 volts, to a stack through which gases are pulled by a fan in the attice.

The hydro-metallurgical room in addition to apparatus for leaching tests contains several natural draft furnaces, a large Hoskins resistance furnace and a 113 lb drop hammer. There are also tanks for electrolytic refining and precipitation of metals.

The upper floor is divided into laboratories, store rooms and offices. The laboratories are 1 Metallurgical analysis, 2 Heating treatment and pyrometry, 3 Grinding, polishing and etching, 4 Metallographic room with an admining dark room.

In the laboratory for metallurgical analysis the student is given some training in mill and smelter methods of analysis. It is well equipped for this work

In the heat treatment and pyrometry laboratory are a number of tube tunnaces of different uses, a Leeds & Northrup transformation point indicator with fumace, double thermocouple and twin galvanometer, a Leeds & Northrup potentiometer pyrometer, a disappearing filament pyrometer, and many thermocouples for use with galvanometer or potentiometer. For grinding and polishing there is provided two motor driven emery wheels and a set of 3 motor driven horizontal polishing plates

The metallographic room is equipped with one horizontal photo micrographic instrument made by Pellin Paris, one vertical photo micrographic apparatus by Bausch & Lomb and two other Bausch & Lomb metallographic microscopes

There are also a Pellin instrument for the determination of critical points by photography according to the Saladin method and a Leeds & Northrup type "K" precision potentiometer, which is also used for the determination of critical points

MECHANICS OF MATERIALS LABORATORY

This laboratory is available for the scientific and commercial testing of materials of construction such as iron, steel, timber, concrete and masonry

It is supplied with the following

An Emery 50-ton hydraulic machine, built by Wm Sellers & Co, of Philadelphia, for making tests in tension and compression

A 100-ton screw power machine, built by Riehle Bros , Philadelphia It is designed for making tests in tension, compression, shearing and cross-breaking, and will take in posts 12 feet long and beams up to 18 feet in length

- A Riehle 10-ton screw power universal testing machine
- A Righle 50-ton screw power universal testing machine
- A Richle 50-ton hydraulic testing machine intended especially for testing
- A Ryehle standard brick rattler
- A 15-ton single level-machine, built by J Buckton & Co , Leeds, England
- A torsion machine, built by Tinius Olsen & Co., Philadelphia, for testing the strength and elasticity of shafting. This machine will twist shafts up to 16 feet in length and 2 inches in diameter.
- A hand power torsion machine of simple mechanical construction, specially designed for the testing of short shafts of a maximum diameter of one inch.
- A Ruchle transverse testing machine of 5,000 pounds capacity, adapted to specimens up to 48 inches in length
- A Riehle compressometer, with spherical seat attachment for the adjustment of spectimens having slightly non-parallel faces. This compressometer will receive specimens up to 10 inches in length.

An Olsen compression micrometer of standard type

- A 20,000 pound Olsen, hand power, wire testing machine, specially fitted for testing wooden columns with both fixed and nivoted ends
- An Olsen combined tension and cantilever type impact testing machine.
 An Olsen, 20,000 pound, hand power testing machine especially adapted
 for testing long columns
 - An Olsen, 200 pound capacity, textile testing machine
- A Richle abrasion cylinder, built to the standard required by the National Brickmaker's Association, adopted in 1901
 - A Berry strain-gauge for spans of 3 inches and 8 inches.
- A Nalder dividing engine This may be used either for the precise division of scales or for the calibration of instruments intended for refined measurements
 - A Brinell hardness testing machine
 - A Shore scleroscope for testing hardness
- A large number of extensometers of the usual degree of precision. These suclide the Bauschinger, Martens, Unwin, Ames, Richle, Johnson, Henning (recording) and other types. In addition there are the usual scales, micrometers, telescopes and reflectors, volimeters for the determination of metallic contact, and such other appliances as are necessary in the making of precise measurements.

The shop is equipped with a number of high-diass machine tools specially littled for reducing the specimens to the requisite shapes and dimensions with a minimum of hand labour. It is also supplied with the necessary appliances for making ordinary repairs and for making apparatus for special experiment and original investigation.

HIGHWAY LABORATORY

ROAD METALS

This laboratory is equipped for carrying out investigations in the various materials employed in highway construction and maintenance, and comprises the following:

Page impact machine for testing the toughness of road materials

Diamond core drill for preparing specimens for the toughness test

Deval abrasion machine for testing the resistance to wear of road materials

Cementation testing apparatus (Page type) for determining cementing properties of road materials

Jaw crusher (Mitchell type) for crushing rock for various tesis Power driven agitator with sieves for the mechanical analysis of sand,

gravel and crushed rock

Dorry hardness testing machine for determining the hardness of rock used in road construction

RITHMENS

This laboratory is designed for the investigation of the physical rather than the chemical properties of bitumens used in road construction and maintenance. The equipment consists of an extractor for separating bitumens and aggregates, an Engler viscosimeters, a penetration apparatus as well as appliances for determining melting point, volatilization, specific gravity, duculity, etc

LABORATORY OF ONTARIO BOARD OF HEALTH

Through the coursesy of the Secretary of the Provincial Board of Health for Ontarto the facilities of the scellently equipped laboratory which the Board maintains at Stanley Park have, with certain conditions, been placed at the service of the University for the investigation of problems of interest to the sanitarian and the sanitary engineer. The equipment comissts of visits to go sewage sedimentation tank, sewage filter, sewage measuring devices, neutrons, sterlinking appliances and a complete and representative plant intended for the filtration and sterlization of water by practically all known methods.

CEMENT TESTING LABORATORY

This laboratory is fitted with all the ordinary moulds, sieves, balances burettes, stemming and drying tanks, tables, and other appliances necessary in making the usual physical tests of a Portland cement. It is also supplied with completely equipped cabinets for individual work.

In addition there are the following.

A 2,000 lb Righle shot machine for tension

A 2,000 lb Fairbanks shot machine for tension

A 1,000 lb Olsen automatic shot machine fitted for tests in either tension or cross breaking

An Olsen soapstone moist closet of modern design

METROLOGICAL LABORATORY

The department of surveying and geodesy is provided with all the ordinary field instruments, such as transits, levels, compasses, incrometers, sextants, planimeters, plane tables, tapes, chains, etc., with which is carried on the instruction in practical field operations as detailed elsewhere

A small laboratory is also established in the basement of the observatory described below, containing the necessary instruments for the refined measurements of geodetic surveying, as, a standard yard and metre, a Rogers 10-foot comparator, an tuwar base measuring apparatus, a Kater's pendulum with vacuum chamber, a level ture; micrometer microscosses, etc.

The goodetic observatory in connection with this department is used for the instruction of students of the Fourth Year in taking observations for time, latitude, longitude, and azimuth by the precise methods used in connection with a goodetic survey. It contains a 10-inch theodolite and seinth telescope by Troughton & Simms, an astronomical transit instrument and an Simch theodolite by Cooke, two electro-chronographs, a Howard astronomical clock, a Dent sidereal break-circuit chronometer, a writeser receiving instrument, antihometers, etc.

GEOLOGICAL AND MINERALOGICAL LABORATORIES

In the Chemistry and Mining building on College Street the University possesses a modern laboratory for Geology and Mineralogy

Courses are given in laboratory work, especially in personal examination of type sets of rocks, fossils, minerals and crystal models These laboratory exercises serve to illustrate the introductory diadetic instruction

For the encouragement of pure crystallography the laboratones are supplied with gonometers of the vancous types, crystal models, appliances for the cutting of oriented crystal sections and for the physical examination of the same. Practical petrography is carried on in rooms provided with type sets of rocks, both macroscopic and microscopic. Advanced students are taught to make thin sections of rocks and fossils and to study them microscopically. For students in Mining a laboratory course in the interpretation of geological maps and section is provided. Typical mining regions are studied in detail and an opportunity is afforded for the examination of specimens illustrating cosmic goology.

The laboratory for the preparation of thin sections of rocks, minerals and fossils is provided with electric diamond saws and grinding appliances for the various types of work incidental to the preparation of thin sections and miserum material A room is also provided for advanced work in cartography and geological surveying

The departments possess 28 petrological nucroscopes and 5 of other types, so that it is now possible to provide advanced students with natruments and sets of thin sections for their own especial use. The blowpipe laboratory contains 156 lockers, especially designed for apparatus for students. Provision is made for the study of opaque minerals in reflected light.



HONOUR COURSE FOR THE DEGREE OF BACHELOR OF HOUSEHOLD SCIENCE

Courses for the degree of Bachelor of Household Science have been arranged to provide opportunities for the study of Household Science for candidates who have not had courses in Latin Others who have met the requirements for entrance are also eligible for admission

ENTRANCE REQUIREMENTS Pass Matriculation in English, History, Mathematics, Experimental Science, and two of Greek, Latin, German, French, Italian or Spaush, Household Science (an approved examination course), and in addition Honour Matriculation in English, Mathematics (Algebra and Geometry), French or German, and one of a second language, History or a science

| First Year | |
|---|---------|
| English 1a, 1b, p 89 | 2 hours |
| One of French 1b, p 95 | |
| German-Special First Year Course similar to French 1b 2 | |
| | 15/2 " |
| *Physics 28, p 132 | |
| | 34 " |
| *Household Science | |
| SECOND YEAR | |
| Two of History 2b, p 100 | hours |
| English 2a, 2b, p. 89 | |
| Political Economy 2e, p 109 | |
| *Chemistry 3, 15, part, p 148 | |
| *Zoology 10, p 136 | |
| *Botany (Bacteriology) 13, p 141 | |
| *Physiology 9, p 146 | |
| *Household Science 2, p 153 | |
| THIRD YEAR | |
| One of English 3a, 3b, p 89 | hours |
| Political Economy 4h, p 112 | |
| Philosophy (Social Ethics) 8a, pp 115, 116 3 | |
| *Biochemistry 1, 3, p 144 | |
| *Household Science 3b, p 158 | |
| *Hygiene and Sanitation 1 | |
| FOURTH YEAR | |
| *Household Science 4b, 4c, 4d, p 153 | hours |
| *Food Chemstry 1, 2, p 145 | |
| *One of Household Science 4 | |
| and Food Chemistry 4 | |
| OR Household Science (Textiles) | |

The numerals in the above refer to the corresponding numbers of the courses on the pages indicated in the Calendar of The Faculty of Arts for 1924-25

^{*}Honours

PASS COURSE FOR THE DEGREE OF BACHELOR OF HOUSEHOLD SCIENCE

ENTRANCE REQUIREMENTS Pass Matriculation in English, History, Mathematics, Experimental Science, and two of Greek, Latin, German, French, Italian or Spanish, Household Science (an approved examination course)

| A candidate who has completed the First Year in the Facult may enter at the Second Year $$ | y of | Art |
|--|------|------|
| First Year | | |
| English 1a, 1b, p 89 | 2 | hour |
| One of French 1a, p 85 | 4 | ** |
| German 1a, p 92 | 4 | ** |
| Mathematics 1a, 1b, p 123 | 2 | ** |
| Physics 28, p 132 | 4 | - 11 |
| Household Science | 3 | 41 |
| SECOND YEAR | | |
| Two of English 2a, 2b, p 89 | 21 | ours |
| French 2a, p 95 or German 2a, p 92 | 3 | 11 |
| History 2a, 2b, p 100 | 3 | ** |
| Political Economy 2e, p. 109 or Philosophy 2a, p. 115 | 3 | 44 |
| Chemistry 1, 14, pp 147, 148 | 4 | " |
| Zoology 10, p 136 | 2 | ** |
| Botany (Bacteriology) 13, p 141 | 2 | ** |
| Physiology 9, p 146 | 1 | 84 |
| Household Science | 4 | ** |
| THIRD YEAR | | |
| One of English 3a, 3b, p 89 | 3 h | ours |
| Political Economy 3e, p. 110 | 3 | ** |
| Philosophy (Social Ethics) 3a, pp. 115, 116 | 3 | ** |
| Chemistry 3, p 148 | 2 | 44 |
| Food Chemistry | 4 | ** |
| Hygiene and Sanitation | 1 | ** |
| Household Science | 9 | 11 |
| Fourth Year | | |
| Biochemistry 1, p 144 | 3 H | ours |
| Food Chemistry | 6 | 44 |

| Biochemistry 1, p 144 | 3 | hours |
|-----------------------|----|-------|
| Food Chemistry | 6 | 44 |
| Household Science | 11 | 66 |

For the graduate of Macdonald Institute who has complied with the entrance conditions and has also completed the First Year of the Faculty of Arts, or its equivalent, an effort will be made to permit her to meet the remaining conditions for the degree of Bachelor of Household Science in one additional academic year



THE ONTARIO COLLEGE OF EDUCATION

THE ONTARIO COLLEGE OF EDUCATION

GENERAL INFORMATION

The Ontario College of Education is the University's professional school of education. It trains candidates for diplomas and certificates as tevchers and in particular for Provincial certificates as teachers of Art, Hossehold Science, and Physical Culture, as High School Assistants and Specialists and as First Class Public School teachers. It also offers courses for the B Panel. and D Panel decrease.

The buildings of the Ontaino College of Education on Bloor Street contain well-equipped and well-ventilated lecture-rooms, laboratories, and reading-rooms for the accommodation of the students, and model classrooms for observation and practice-teaching So far as necessary the observation and practice-teaching are supplemented by observation and practice-teaching in schools in the neighbourhoots.

While the chief exercises of the Ontarno College of Education will be conducted in the buildings on Bloor Street, the students may use the University's library, gymnassum, athletic fields, etc., under such conditions as obtain with other students. They will also be admitted free to the Royal Ontario Museum, Bloor Street, from θ a m to δ p m, on presentation of their registration cards. Thus, while they are subject to the same regulations, they enjoy all the privileges of the other University students

BOARD AND LODGING

The Secretary of the Ontario College of Education and the Secretary of the Christian Association of the University will forward accredited lists of boarding-houses on request

COURSES

The following courses are offered

- I Courses for (1) Interim Ordinary High School Assistants' and High School Specialists' certificates with Interim First Class Public School certificates or Elementary certificates in Physical Culture and Art, (2) Ordinary certificates as teachers of Household Science
- II Courses for the B Paed degree
- III Courses under the School of Graduate Studies for the degrees of D.Paed, M.A. and Ph.D.

Ι

COURSES FOR INTERIM ORDINARY HIGH SCHOOL ASSISSION TANTS AND HIGH SCHOOL SPECIALISTS CRETIFICATES WITH INTERIM FIRST CLASS PUBLIC SCHOOL CERTIFICATES OR ELEMENTARY CERTIFICATES IN PHYSICAL CULTURE AND ART, AND FOR ORDINARY CERTIFICATES AS TEACHERS OF HOUSEPHOLD SCIENCE

SESSIONS

1 Enrolment in classes of the regular session will begin Tuesday, September 30th, and the instruction will begin October 1st, at 10 a m. The Autumn Term will end December 19th, at 1 p.m., and the Easter Term will begin January 6th, at 9 a.m. The Spring Term will begin April 20th and end June 19th.

DUTIES OF STUDENTS

- 2 (1) Regular attendance on the part of candidates for Provuncial certificates is indispensable, except for such as are exempt from attendance under the regulations of the Department of Education, and for such as are experienced teachers and are permitted by the Dean to act, after Christmas, for not more than a total of one fortangith, as substitute teachers in the schools of Ontano A return of the attendance of each student will be made to the Musiser of Education at the Close of the assension.
- (2) Students whose class-work shows them to be unduly deficient in scholarship, or whose conduct or progress is unsatisfactory, may be dismissed from attendance by the Dean at any time during the session
- (3) On the Dean's report to the Minister of Education as to the physical unfitness of a student for training for a Provincial certificate as a teacher, the Minister may require a special medical examination of such student, and, as a result thereof, may direct that his registration for such training be cancelled

STUDENT SOCIETIES

3 Various religious, athletic, literary and dramatic associations are formed each session. For professional improvement all students are required to share in the activities of the literary and dramatic associations.

APPEALS

4 The answer papers of the final examinations of all unsuccessful candidates for Provincial certificates are re-read by the examiners, and

the results of the first reading reconsidered before a decision to reject is reached. Despite this fact any unsuccessful candidate may have his case considered a third time if within two weeks after the announcement of the results he lodges with the Minister of Education has appeal, with a statement of the grounds on which it is based, and with a fee of \$20 O. If made within the two weeks following, the fee will be \$5, and no appeal will be centrained therefore. The few will be refunded if the angeals is sustained.

COURSE FOR INTERIM ORDINARY HIGH SCHOOL CERTIFICATES

PURPOSE

5 The Course for Interim Ordinary High School certificates prepares candidates therefor in the theory and art of organizing, governing, and instructing pupils in the Continuation Schools, Grades A and B, and in High Schools

CONDITIONS OF ADMISSION

- 6 (1) Except as provided in (2) below, an applicant for admission to the course for an Interim Ordinary High School Assistant's certificate should make application not later than September 30th, to the Secretary of the Ontario College of Education on a form to be obtained from him and should submit with this application, on official forms also to be supplied by the Secretary.
- (a) A certificate from the Deputy Registrar-General of Births, Parliament Buildings, Toronto, or an affidavit by one of the parents or other relative, or other person cognizant of the fact, that the applicant will be at least 20 years of age before October 1st, 1924
- (b) A certificate from a clergyman or other competent authority that he is of good moral character
- (c) A certificate from a duly qualified medical practitioner that for the purposes of this certificate he has made a careful examination of applicant, and certifies as follows (i) that he is free from heart disease or any other serious organic affection, (ii) that he is free from pulmous affection, defective hearing, or senously deferte with his work as a tender anoditions of appearance which would interfere with his work as a tender, and (iii) that in other respects also he is physically able for the work of a tender as presented in the courses of study of the Ostaro College of Education and of the Provincial Schools represented in the certificate for which he is a candidate. (See also Section 2 (3))
- (d) An agreement, if successful in obtaining a teacher's certificate, to teach thereon in Ontario, for at least the first year of his subsequent teaching experience
 - NOTICE -A violation of this agreement will render the certificate invalid
 - (e) A certificate from a competent authority that he is a British subject (f) His certificate of graduation as Bachelor or Master of Arts, Bachelor
- or Master of Science, Bachelor of Commerce, Bachelor of Aguculture, or Bachelor of Applied Science, from a British university, after a regular

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COURSE FOR INTERIM ORDINARY HIGH SCHOOL-Cont

university course approved by the Minister of Education as to entrance requirements and as to content of the undergraduate courses. Each applicant must have Upper School or Honour Matriculation standing in English, History and Mathematics or the equivalent of such standing

- (2) An applicant for admission to this course who is not a candidate for the certificate of the Ontario Department of Education must comply with such conditions of admission as the Council of the Ontario College of Education may determine
- (3) Applications, by students not in attendance, for admission to the examinations should be made, at least one month before the examinations begin, to the Secretary of the Ontario College of Education, University of Toronto, on an official form to be obtained from the Secretary
- 7 The annual fee for the Course for Interum Ordunary High School Assistant's certificates, which includes the bibrary and examination fees, is \$25.00 The fee for the examination in the Course for Interum High School Assistant's certificates when the examination is taken by students not an attendance, will be \$15.00, or \$10.00 for Part I and \$8.00 for Part II, or in the case of partial examination, \$20.00 per subject. The fee for the University diploma will be \$2.00 A library deposit of \$1.00 will be required of all students, and a fee of \$8.00 for membership in Hart House of all male students All students will be required to become members of the respective Students' Administrative Councils, and the women students who take the classes in Physical Culture to become members of the Women's Athletic Association.

TEXT-BOOKS

- 8 The text-books for the academic work are those prescribed for the Lower and Middle Schools of the High Schools of Ontario in each subject of the student's course,
- For Observation and Practice-teaching students should supply themselves with copies of the text-books authorized for use in the above-named grades of schools. They should also supply themselves with the professional text-books whose titles appear in italics in the lists given below under each subject.

PROGRAMME OF STUDIES

- 9 (1) The course of training for Interim Ordinary High School Assistants' certificates consists of two parts as follows
- Part I The Science of Education, School Management and Law, English, History, Geography, and (a) Latin, and French or German or Spanish or Greek or (b) Mathematics and Science
 - Part II Observation and Practice-teaching

COURSE FOR INTERIM ORDINARY HIGH SCHOOL-Cont.

(2) Students in attendance in the Interim Ordinary High School Assustant's course may also take the course in Vocal Music, and, if they possess the required cademic qualifications, a Specialis's course, and must also take either the course for the First Class Public School certificate or the course for the Elementary certificate in Physical Culture or the course for the Elementary certificate in Art

ORGANIZATION OF COURSE

- $10\,$ (1) The following introductory work will be taken up at the beginning of the session
- $(\ensuremath{\mathfrak{a}})$ About 20 lectures upon the General Method of the Recitation in the Science of Education
- (b) Supervised Observation and Practice lessons (about 10 of each) in the different grades or forms of the High Schools
- (2) The instruction in the special methodology of the subjects of the High School course will be companied by a review from the action standpoint of such portions of each subject as may be necessary to determent the scholarship of the suddents and to illustrate the methods of instruction in that subject, dealing in particular with those parts of the course that are difficult of presentation
- (3) So far as the conditions permit the programme of instruction will be organized on the basis of intensive study of a few subjects at a
- (4) (a) The lectures will be distributed among the various prescribed subjects approximately as follows The Science of Education 100, School Management and Law 50, English 90, History 20, Geography 15, Mathematics 80, Latin 50, French or German or Spanish or Greek 40, Science 40, Vocal Musics 30
- (b) The courses in Mathematics, English, and Vocal Music will begin at the opening of the session and will continue until the close, those in the other subjects will be given, as far as practicable, in correlation with the Observation and Practice-teaching and will continue until combleted
- (c) The Observation work will begin in the third week of the session, and the Practice-teaching in the fifth week Exclusive of the introductory work, the programme of instruction will include for each student at least 50 Observation lessions and 30 Practice-teaching lessions. These numbers may be increased to meet the needs of individual students.

COURSE FOR INTERIM ORDINARY HIGH SCHOOL-Cont

OBSERVATION AND PRACTICE-TEACHING

- 11 (1) The introductory course defined herein will be followed by systematic Observation and Practice-teaching, under the general supervision of the lecturers in the Ontario College of Education
- (2) (a) The Observation and Practice-teaching lessons for each student will be arranged to represent as far as practicable the work in all forms and grades of the Lower and Middle Schools of the High Schools There will also be Observation in the Upper School of the High School
- (b) So far as practicable continuous Practice-teaching for several periods will be required, the students being wholly responsible for the management of the classes
- (3) Students will be notified of the subject and scope of the Observation lesson, and should prepare the lesson beforehand. After observing the lesson they will discuss it with the teacher or lecturer concerned
- (4) Students will be notified of the subject and the scope of the practiceteaching lesson by the teacher concerned, and will prepare a plan of each Practice-teaching lesson for submission to the teacher
- (5) (a) Model lessons will be taught by the teachers of the Practiceschools in accordance with the regular programme of said schools
- (b) The lecturers of the Ontario College of Education will develop the details of their subjects in the teaching order, and after each suitable step, will also themselves teach model lessons in special classes and in the practice schools
- (6) (a) The necessary applications of the Science of Education and of Special Methods will be made systematically in connection with the Observation lessons and the Practice-teaching, so that the course may be taken up in terms of the pupil's mind and prowth. Throughout the course the instructor in the Science of Education will himself illustrate by actual teaching the principles he has discussed in class
- (b) As far as practicable, the lecturers of the Ontario College of Education will be present at the Observation lessons and Practice-teaching of the students and will make jointly the criticism and valuation of their work

EXAMINATIONS

- 12. (1) For the purpose of determining the final standing of students the courses are classified into the following subjects
- Part I Science of Education, School Management and Law, English, History, Mathematics, Geography, Latin, French, German, Spanish, Greek, Science, Vocal Music
 - Part II Observation, Practice-teaching

- (2) (a) The final standing of students in attendance will be determined by the combined results of the sessional records and the records of the final examinations in the subjects of Part I, and by the results of the records of the Observations and Practice-teaching of Part II
- (b) The sessional records represent oral and written exercises, practical work, practice in making examination papers, and in valuing the answer-papers of pupils, and such other tests as the staff may prescribe
- (c) At the close of each term there will be final examinations in such courses of Part I as have been completed in the term
- (d) At the examinations in Part I, each paper will contain questions in methodology, based upon the academic subjects, which will test the candidate's academic knowledge and, if his sessional records and his answers to these questions show that his academic knowledge is defective, he will be revected on this ground alone
- (e) The maximum marks assigned to each subject in Part I will be 100 In all subjects except Vocal Music, a maximum of 40% of the marks will be assigned to the sessional records and 60% to the final written examinations In Vocal Music a maximum of 50% of the marks will be assigned to the sessional records and 50% to the final written examinations.
- (f) A maximum of 800 marks will be assigned to Practice-teaching and of 400 to Observation. The standing of the student in Observation and in Practice-teaching will be based upon his sessional records in the lessons following those which form part of the introductory courses.

CERTIFICATES

- 13 (1) A student who obtains 50% of the marks in each of the required subjects of Part I and 60% of the aggregate of the marks in each of the divisions of Part II, may, on the recommendation of the examiners, be awarded by the Minister of Education, an Interim Ordinary High School Assistant's certificate
- (2) A student who passes in Part II and fails in not more than two of the obligatory subjects of Part I will be exempted from further attendance
- (3) All other students who have failed to obtain the necessary final standing will be required to attend another session, beginning after the Christmas vacation
- (4) (a) (i) Candidates who are exempted from attendance at the Ontario College of Education, as provided in (2) above, may complete their standing for a certificate by re-writing, at one annual examination, or, separately, at different annual examinations, the examination in the subject or subject is in which they failed

COURSE FOR INTERIM ORDINARY HIGH SCHOOL-Cost

- i) Candidates who failed at £ in examination under former Regulations and who were exempted from subsequent attendance at the Ontario-College of Education will take, not later than a date determined in each case by the Minister of Education, the final examination papers as prescribed herein but their standing will be determined in the subjects as constituted under the Revulsations in force when they first wrote.
- (ii) Candidates who have been exempted by the Minister of Education from attendance at the Olation College of Education on account of equivalent training in other provinces or countries, and who are required to write on the final e-animations of the Ontario College of Education will take the prescribed final examinations in the subjects of Part I, and will take the prescribed final examinations in the subjects of Part I, and will take the prescribed final examinations in the subjects for Part I, and will take start of the work in the subjects covered by the certificate for which they are considered.
- (b) (i) The pass standard for candidates exempt from attendance will be the same as that for candidates in attendance but no allowance will be made for sessional work, if any, in the case of candidates not in attendance
- (ii) The final examinations in Vocal Music for students exempt from attendance, will include both a practical and a written test, 50 marks being assigned to the written test and 50 to the practical test
- (c) (a) Candidates exempt.from attendance shall take their practical tests in Part II at such times during the session as may be agreed upon with the examiners. They shall take their examinations in the subjects of Part I in June on dates to be determined by the examiners or, in part, in June and, in part, at such times during the session as are set apart for the examination of students in attendance.
- (ii) Students exempt from attendance may take their written examinations in Part I at Toronto, or at such local centres and under such conditions as may be determined by the Senate They must, however, take their practical tests in Vocal Music, and in Teaching at Toronto
- (5) (a) Candidates who hold First Class Public School certificates, with the academic standing required for admission to the High School Assistants' Course and who submit certificates of at least one year's successful experience in a Continuation School from the Inspector or Inspectors under whom they have taught will be exempted from the attendance, excepting for the Spring Term, but will take the final examinations prescribed for Part I, and must also satisfy the examiners by practical tests that they are able to teach the subjects of the High School course.
- (b) Other candidates who hold a First or a Second Class certificate with the academic standing required for admission to the High School

COURSE FOR INTERIM ORDINARY HIGH SCHOOL-Cont

Assistants' Course will be exempted from attendance during the Autumn Term, but will take the final examinations prescribed for Part I and must also satisfy the examiners by practical tests that they are able to teach the subjects of the High School courses

DIPLOMAS

14 Successful candidates who are awarded Ordinary High School certificates by the Minister of Education and such other successful candidates as may be admitted to the course under section 6 (2), may be awarded University diplomas

COURSES FOR HIGH SCHOOL SPECIALISTS' CERTIFICATES

PURPOSE

15 The courses for Interim High School Specialists' certificates prepare candidates therefor in the theory and art of organizing and instructing the pupils of the High Schools and Collegiate Institutes, in certain departments or subjects of the courses of said Schools

CONDITIONS OF ADMISSION

- 18 (1) Applicants for admission to the courses for Interim High School Specialist' certificates, or to the final examinations for and certificates, must also be applicants for admission to the courses for Interim Ordinary High School Assistant's certificates, or must be applicants for admission to the examinations therefor without attendance throughout the session, or must already hold Ordinary High School Assistant's certificates. No candidate will be awarded an Interim High School Specialist's certificate or receive credit towards said certificate follows:
- (2) (a) A candidate for an Interim High School Specialist's certificate who is also a candidate for admission to the course for an Interim Ordinary High School Assistant's certificate, must comply with the conditions for admission prescribed for candidates for Interim Ordinary High School Assistant's certificates, and must also have his academic standing as a specialist approved by the Minister of Education before he will be admitted to said specialist course or to the examinations for the screenist certifies.
- (b) A candidate for an Interim High School Specialist's certificate who holds an Ordinary High School Assistant's certificate, must have his academic standing as a specialist approved by the Minister of Education before he will be admitted to the examinations for the specialist certificate

FEES

17 When an Interm High School Specialist Course is taken concurrently with the Course for an Interm Ordinary High School certificate, or when an Interim High School Specialist examination is taken concurrently with the examination for an Interm Ordinary High School certificate, there is no additional fee The fee for a specialist course or examination, one or both, taken apart from the course or examination for an Interm Ordinary High School certificate, will be \$5.00 per course or per examination, one or both, as the case may be

COURSES FOR HIGH SCHOOL SPECIALISTS-Cont

COURSES

- 18 (1) Courses will be offered for Interim High School Specialists' certificates in Agriculture, Classes, Commerce, English and Prench, English and History, French and German, French and Spanish, Mathematics, Mathematics and Physics, Moderns and History, Science, and Household Science
- (2) Each specialist course will consist of at least two seminar-periods per week throughout the session, and of special Observation and Practiceteaching in the specialist department in which the candidate is an applicant for a certificate.

TEXT-BOOKS

19 Students in the courses for High School Specialists' certificates will supply themselves with such special professional text-books as may be recommended by the instructors from the lists given under the details of each course. The other books and journals, whose names appear in these lists, may be consulted in the library of the Ontario College of Education.

EXAMINATIONS

SURFRCTS AND STANDARDS

- 20 (1) Subject to the condition that no student may be awarded an Interim High School Specialist's certificate who does not already hold or is not also awarded an Interim Ordinary High School Assistant's certificate, the final standing of students in attendance in a specialist course will be determined by the records of the Observation and Practiceteaching in the department or subject concerned, and by the combined results of the sessional records and the records of the final examinations in the same department or subject. The sessional records represent oral and written exercises, practical work, practice in preparing examination papers, and in valuing the answer-papers of pupils, and such term work as the instructors may prescribe. The records of the final exammations will be based upon two examination papers taken in each department at the close of the session The maximum marks represented in the Observation and Practice-teaching will be 100, in the sessional records 40, and in the final written examinations of the department or subject 60
- (2) The final standing of students not in attendance will be determined by the final written examinations and by teaching in the department concerned. For this purpose the maximum of marks in each case will be 100.

570

COURSES FOR HIGH SCHOOL SPECIALISTS-Conf.

CERTIFICATES

21 (1) On the recommendation of the examiners the Minister -Education may grant Interim High School Specialists' certificates i students in attendance who have fulfilled the conditions of the course for Interim Ordinary High School certificates, who in their specialist depar ment have obtained (a) 60% of the aggregate of marks represented : the sessional records and the records of the final examinations and (60% of the marks assigned to the Observation and the Practice-teachin

(2) On the recommendation of the examiners the Minister (Education may grant Interim High School Specialists' certificates (students exempt from attendance who hold or are awarded Ordinary His School certificates, who hold also the necessary academic certificates a specialists, and who obtain 60% of the marks assigned to the writte examinations and to the Practice-teaching, respectively, in the speciali course concerned

(3) (a) For students not in attendance the written examination in the courses for Interim High School Specialists' certificates will be he at the end of the session at Toronto or at such local centres and undsuch conditions as may be determined by the Senate

(b) For students not in attendance the practical examinations wi be held at Toronto, except in the case of those to whose competency th visiting Provincial Inspector certifies, after due notification to suc Inspector by the candidate of the latter's intention to become an applicar for a specialist's certificate

COURSES FOR FIRST CLASS PUBLIC SCHOOL CERTIFICATES

PURPOSE

22 The course for First Class Public School certificates prepares candidates therefor in the theory and art of organizing, governing, and instructing the public of the Public, Separate, and Continuation Schools

CONDITIONS OF ADMISSION

23 Applicants for admission to the course for Internm First Class Public School certificates or to the final examinations for said certificates must comply with the conditions of admission prescribed for candidates for Internm Ordinary High School Assistants' certificates No candidate will be awarded an Internm First Class Public School certificate or receive credit towards said certificate before he has been awarded an Internm Ordinary High School Assistants' certificate

REES

24. When an Interum First Class Public School course is taken concurrently with the course for an Interum Ordinary High School certificate, or when the examination for an Interum First Class Public School certificate is taken concurrently with the examinations for an Interum Ordinary High School Assistant's certificate, there is no additional fer. The fee for a First Class Public School course or for the examinations of said course taken by one who already holds an Interum Ordinary High School Assistant's certificate will be \$5 00 for the course or for the examination space or both, as the case may be, or \$20 0 for each examination paper.

TEXT-BOOKS

25 The text-books for the academic work of the course for Interim First Class Public School certificates shall be those prescribed in each subject for the High, Public and Separate Schools The text-books for the professional work shall be those whose titles are printed below in italies.

PROGRAMME OF STUDIES

- 28 (1) The course of training, which is supplementary to the course of training for Interim Ordinary High School certificates, includes the following subjects
- Part I Primary Reading and Spelling, Composition (including stories and biographies from History), Arithmetic, Primary and Advanced,

COURSES FOR FIRST CLASS PUBLIC SCHOOL-Cont

Algebra, Geometry, two of Lattin, French, Geiman or Spanish, Greek, Bology, Physics and Chemistry, Elementary Science, Nature Study, Agriculture and Horticulture, Writing, Mussc, Art, Hygene, Physical Culture, Manual Traming, Household Science (for women), as defined in the Ontario Normal School courses for Interim First Class Pul-lus School Certificates

Part II Observation and Practice-teaching—at least thirty observations and fifteen practice lessons—to be conducted under conditions defined in Ontario Normal School courses for Interim First Class Public School certificates

(2) To the instruction in the subjects of the course will be allotted a maximum of two hundred lecture periods

MODIFICATIONS OF COURSES

- 27 (1) Students who take the Latin, French, German or Spanish, Greek, or Music of the Interim Ordinary High School Assistant's course will be exempted from the corresponding subjects of the Interim First Class Public School course. Similarly those who take the Mathematics of the Interim Ordinary High School Assistant's course will be exempted from Advanced Arithmetic, Algebra and Geometry, and those who take Science from Elementary Science, Biology and Physics and Chemistry.
- (2) Students who hold Provincial professional certificates in Physical Culture, Writing, Music, Art, Manual Training, or Household Science will be exempted from the examinations thereon but will take the Observations and Practice-teaching therefor
- (8) Candidates who hold Provuncial Second Class Public School certificates and who take Latu and a second language as the option of the Interim Ordinary High School Assistants' course will be exempted from the instruction and examinations in all subjects of the Interin First Class Public School course except Advanced Arithmetic, Algebra and Geometry, Elementary Science, Agriculture and Horticulture, and Hygene, while those who hold Provincial Second Class Public School certificates and take Mathematics and Science as the option will be exempted from the instruction and examination in all subjects of the Interim First Class Public School course except Agriculture and Horticulture, and Hygienc

EXAMINATIONS

28 (1) Subject to the condition that no student may be awarded an Interim First Class Public School certificate who does not already hold, or so not also awarded an Interim Ordinary High School Assistant's certificate, the final standing of the students in attendance in the course for Interim First Class Public School certificates will be determined by the records of the Observation and Practice-teaching and by the combined results of

COURSES FOR FIRST CLASS PUBLIC SCHOOL-Cont

the sessional records and the records of the final examinations in said course. Subject to the same condition, the final standing of candidates not in attendance will be determined by the records of the final written examinations and of practice-teaching.

(2) The examinations in the subjects of the course for Interim First Class Public School certificates shall be conducted, pars passes, in the terms and under the conditions set out in the Calendar of the course for Interim First Class Public School certificates of the Ontario Normal Schools.

CERTIFICATES

- 29 (1) (a) Subject to the conditions of Sec 28 (1), a candidate who obtains 50% of the marks in each subject of the course for Interim First Class Public School certificates and 60% of the aggregate of the marks in each of Observation and Plactice Teaching may, on the recommendation of the examines, be awarded by the Munister of Education, an Interim First Class Public School certificate.
- (b) Subject to the same conditions, a candidate who passes in Observation and Practice Teaching and fails in not more than three subjects and who does not receive less than 45% in any subject, may, on the recommendation of the examiners, be granted by the Minister an Interim Second Class Public School curficate
- (c) Subject to the same conditions, a candidate who passes in the Observation and Practice-teaching and fails in not more than three subjects may be exempted from further attendance and may compile the ocurse for an Interm First Class Public School certificate by rewriting at one annual examination, or, separately, at different annual examinations, the examinations in the subject or subjects in which it is failed.
- (2) All candidates other than those referred to in (b) and (c) who have failed to obtain the necessary final standing will be required to attend another session, beginning after the Christmas vacation
- (3) Regulations 13, (4) (a) (1), (u), (u), (b) (i), (c) (1), (u), which apply to candidates for Interim Ordinary High School Assistants' certificates who are exempt from attendance apply also, pars passes, to candidates for Interim First Class Public School certificates who are exempt from attendance.

COURSES FOR ELEMENTARY CERTIFICATES IN PHYSICAL CULTURE AND IN ART

PURPOSE

30 The courses for the Elementary certificates in Physical Culture and Art prepare candidates therefor in the theory and art of organizing, overning, and instructing in Physical Culture and Art the pupils of Continuation and High Schools

CONDITIONS OF ADMISSION

31 Students who have been admitted to the course for Interim Ordinary High School certificates will take also either the course for an Interim First Class Public School certificate or the course for the Elemintary certificate in Physical Culture or the course for the Elementary certificate in Art

FEES

32 As the course for the Elementary certificate in Physical Culture or in Art may be an obligatory part of the course for the Interim Ordinary High School Assistant's certificate, no additional fee is required

TEXT-BOOKS

33 Students in the courses for Elementary certificates in Physical Culture or Art will supply themselves with such text-books as may be recommended by the instructors from the lists given under the details of those subjects.

PROGRAMME OF STUDIES

- 34 (I) The subjects of the course for Elementary certificates in Physical Culture or in Art are to be found on pages 41-44
- (2) To the instruction in the subjects of the course in Physical Culture or in Art will be allotted a maximum of one hundred and twenty lecture periods

EXAMINATIONS

- 35 (1) The final standing of candidates for the Elementary certificate in Physical Culture or in Art will be determined by the results of the sessional work, final practical tests, and final written examinations
- (2) (a) The following is the scheme of examinations and tests in Physical Culture

COURSES FOR ELEMENTARY CERTIFICATES IN PHYSICAL CULTURE AND ART--Continued

Written Examinations

Anatomy 100, Physiology and First Aid 100

Sessional and Final Practical Tests

FOR WOMEN Calisthenics 200, Apparatus 50, Games and Military Drill 200, Swimming 50

FOR MEN Calisthenics 100, Apparatus 200, Indoor Games and Athletics 100, Swimming 50

Fifty per cent of the marks in each of the practical examinations will be assigned to the sessional and fifty per cent to the final tests

(b) The following is the scheme of examinations and tests in Art

Sessional Work

All sessional work must be completed satisfactorily before the other tests may be taken

Practical Time Tests

Drawing from common objects, in pencil, and in charcoal

Drawing from nature

Composition, simple illustration of a given subject

Modelling of simple forms
Design of conventionalized natural forms, lettering

Colour painting still life in colour harmony Blackboard and memory drawing

Written Tests

Outlines of the history of art

Theory of colour

Design and applied art Elementary perspective

Methods of teaching art in High and Continuation Schools

Each subject and each paper shall be valued at 100

CERTIFICATES

36 (1) On the recommendation of the examiness the Minister of Education may grant an Elementary certificate in Physical Culture or Art, as the case may be, to the student in the course for an Interim Ordinary High School certificate, provided that said student is awarded an Interior Ordinary High School certificate and obtains (a) in Physical Culture a munimum of 80% of the marks assigned to each subject of (i) the written and of (ii) the sessional and final practical tests respectively, or (b) in

COURSES FOR ELEMENTARY CERTIFICATES IN PHYSICAL CULTURE AND ART-Continued

Art a minimum of 50% of the marks assigned to each subject or paper of the practical and written tests, respectively

- (2) (a) No student will be awarded an Elementary certificate in Physical Culture or Ait whose attendance or progress in any part of the course has been reported as unsatisfactory
- (b) The Dean will investigate the claims of the candidates who report themselves as unable for physical reasons to take the course in swimming, provided that such claims are presented to the instructor at the beginning of the session on a form and after a manner defined by the Minister of Education If any candidate is exempted from the instruction in swimming by the Minister of Education that fact will be stated in his certificate
- (3) On the recommendation of the examiners, the Minister of Education may permit candidates in these courses who have completed the sessional work and taken all practical tests successfully but who have failed in one or more subjects of the written tests, to take the written tests without attending again or repeating their practical work or tests

FOR ORDINARY HIGH SCHOOL ASSISTANTS', HIGH SCHOOL SPECIALISTS', AND FIRST CLASS PUBLIC SCHOOL CERTIFICATES AND FOR ELEMENTARY CERTIFICATES IN PHYSICAL CILITIES AND ART

37 The topics of the subjects of the courses for Interim Ordinary High School Assistant's and High School Sponalists' certificates and for Elementary certificates in Physical Culture or Art are given below. For the courses for Interim First Class Public School certificates these topics and subjects must be supplemented by the topics and subjects set out in the Normal School courses for First Class Public School certificates.

THE SCIENCE OF EDUCATION

38 Introduction —Democracy and education, the special need for education in a democracy, teaching as a vocation, teacher-training in a modern educational system

General Method —The meaning of method and its psychological foundations, procedures common to various branches of teaching, types of lessons, notes of lessons

Principles of Education —The nature and aims of education, the function in education of the state, home, church, vocation, etc., the curriculum, its nature, purpose, and selection, modern movements for the reform of education

Educational Classics —The study in class of selected portions of a few educational classics

 $\it Educational\ Psychology$ —The original nature of man, including a study of heredity, instinct, and capacities

The Psychology of the learning process, including the study of such topics as habit, rates of learning, practice, fatigue, memory, reasoning

The Psychology of typical high school branches, standard scales for their measurement

The measurement of general intelligence, an examination of the Binet-

Simon and other tests

Child Study, its aims, methods, and results

Child Study, its aims, methods, and

Books of Reference

Ontario Normal School Manuals Science of Education, History of Education

Adams (Ed) The New Teaching Dewey Democracy and Education Raymont Principles of Education Ruediger Principles of Education

Sandiford Mental and Physical Life of School Children

Starch Educational Psychology

Waddle Introduction to Child Psychology Woodrow Brightness and Duliness in Children

SCHOOL MANAGEMENT AND LAW

39 School Management, School Organization, School Administration, aims and scope of each, relation of each to the teaching process

Forms of educational control, Department of Education and its functions, school boards and their functions, relation of inspectors and principals to teachers, teachers to caretakers, trustees, finance of education, business administration

Types of schools, functions of each type, primary, secondary, and higher schools, consolidated schools, day and evening schools, training schools, commercial, industrial, agricultural, and technical schools, schools for subnormal children, defectives, and delinquents

School sites and surroundings, school buildings, construction, carrtaking, heating, ventilation, lighting, sanitation, decoration, and equipment, apparatus, libranes, selection, cataloguing, use, text-books, authorization, use and abuse, free text-books, visual aids, medical and dental inspection. the detection of communicable diseases

The teacher characteristics, qualifications, appointment, tenure of office, promotion, improvement of status, superanuation of the teacher, duties of the teacher in relation to pupils, parents, and other citizens, qualifications and characteristics of the successful teacher, his code of ethics

The pupil privileges and duties, the health of the pupil, the formation of his habits, the teacher's resonnibility, fatigue, moral training

The first day in school, the importance of the teacher's work and attitude

Organization grading and classification, promotion, retardation, elimination, care of individual and of abnormal

The recitation assignment of home and seat work, oral and written exercises, how to study, questioning, treatment of answers

Discipline its scope, relation to methods of teaching, incentives, causes of dealing with weaknesses and offences, penalties

Time-tables purpose, principles involved in construction, typical daily programmes for various kinds of schools

Records and reports keeping registers, value and kinds of school records, forms of reports

Examinations and other tests of progress

School Law and Regulations and Public Health Acts and Regulations in so far as they refer to the duties of school boards, teachers and pupils Books of Reference

Regulations and Courses of Study for the Public, High and Continuation Schools of Ontario

Ontario Schools Acts, and Public Health Act

Ontarso Normal School Manual School Organisation and Manage-

Bennett School Efficiency

Bagley Class Management Ballard The New Examiner

Hume The Improvement of the Elementary Teacher in Service

Johnston The Modern High School

ENGLISH

40 (1) Reading The importance of training in reading and in the principles of vocal expression to the pupil's ordinary speech and general culture

The Reading Process The factors involved in the process, the work of the eye in reading, word-recognition, the reading process as a specialized mode of the thought process, the relation of ideas to symbols, constant necessity for associating the printed symbol directly with the idea, the ideal conditions for the formation of this association

The nature and function of silent reading, methods of conducting lessons in silent reading, the basis of expressive reading, the principles of vocal expression, the criticism of the pupil's reading, the place and limitations of imitative reading

Practice, voice training, a class course in expressive reading, this work to be supplemented by practice in connection with the course in literature and with the activities of the Literary Society and the Dramatic Club.

Tests Reading tests, eg, "The Courtis Standard Test in Reading"

(2) Literature —The place of literature in school courses, the principles followed in Ontario and elsewhere in arranging literature courses for schools, books suitable for intensive study in the various forms or grades of the schools, class treatment of such types of literature as the

short poem, the long narrative poem, the play, the short story, and the novel, examinations in literature, supplementary reading, its importance, selection of books, testing of reading

The course in literature includes a consideration of the problems connected with the teaching of silent and expressive reading and voice training

(3) Grammar — Introductory The meaning of English grammar, its relation to speech, reasons for and against retaining it in elementary schools, reasons for deferring the formal study till Form IV, introductory work of Form III in connection with composition

Consideration of the content and value of the course in grammar in Continuation and High School, the work to be covered in each of the Forms of the Lower School, use of a text-book in grammar, terminology, the use of definitions, irestament of false syntax, methods of conducting instruction in grammar discussed and illustrated in lessons upon subjects selected from tongs difficult of orsentation.

(4) Composition —Introductory The value of language training; present-day tendencies in the teaching of composition

Methods How habits of speaking and writing good English are formed, expression as a stage in the development of every lesson, the forms of expression that aid most the development of language powers, the effect of the teacher's example upon the pupils' language, relative value of reading and telling stories, the story method, value of reading and memor lang good literature, incidental work in language training.

The relation of oral and written composition, purpose and value of oral exercises, criticism of oral work, the dangers connected therewith and the means of avoiding them

The principles to be kept in yiew in conducting exercises in written composition, the method of gathering, selecting, and arranging material, value of topical outlines, supervision and aid during writing, the place of home work in written composition, the value of formal linguistic exercises, correction of common errors, letter-writing and business-forms.

The mechanics of written composition Sentence and paragraph structure, paragraph compositions, the use of capitals, punctuation marks, quotation marks, abbreviations, etc

The principles to be followed in arranging a course in composition, work suited to the age and experience of the student, use of a text-book in composition, amount of written work to be demanded, criticism of essays, standards of marking, place of rhetoric in the school course, importance of oral composition, sources of material, class proceedier

Books of Reference

Ontarso High School Grammar Ontarso High School Composition

Public School Manual in Composition

Bolensus The Teaching of Literature in Grammar Grades and the Histh School

Bolenius The Teaching of Oral English

Carpenter, Baker and Scott The Teaching of English

Chubb The Teaching of English

Clark How to Teach Reading in the Public School

Dickie Modern Practice in the Teaching of Composition Huev Psychology and Pedagogy of Reading

Lamborn The Rudiments of Criticism

Macpherson The Study of English Literature

HISTORY

41 Stages in the study of history, the reflective stage, the tools of the history teacher, the High School course in history and crives, importance, content, methods of teaching. Illustration of methods in lessons on topic selected from the history prescribed for the Lower and Middle Schools Students will be required to show their ability to gather historical material, and to oresent it in accessfable forms.

Books of Reference

Public School Manual History

Barnard The Teaching of Community Civics

Bourne The Teaching of History and Civics

Dunn Social Studies in Secondary Education

Jarvis The Teaching of History Johnson The Teaching of History

Macpherson Visual Aids in the Teaching of History

Tryon The Teaching of History in Junior and Senior High School

SEMINAR IN ENGLISH AND HISTORY

42 English

- (a) A study of topics difficult of presentation in the English grammar, composition, and literature prescribed in the High School courses of study
- (b) A discussion of the organization of the course in English throughout the various Forms of the High School
- (c) A study of the methods of class-room procedure in the teaching of English, and of problems arising therefrom

Books of Reference

Carpenter, Baker and Scott The Teaching of English

Chubb The Teaching of English
Hosic Reorganization of English in Secondary Schools (Bulletin

No 2, 1917, Bureau of Education)

Leonard Essential Principles of Teaching Reading and Literature Newbolt Report on the Teaching of English in England

Tomkinson The Teaching of English

Articles in "The English Journal" and other journals History

(a) A study of topics difficult of presentation in the prescribed his-

tory.

(b) A discussion of the courses in history that are adapted for pupils of various ages, and of the corresponding methods of teaching

(c) A study of the method of research in history The preparation of short monographs on assigned topics

Books of Reference

Johnson The Teaching of History

Allen The Place of History in Education

Dunn Social Studies in Secondary Education (Bulletin No 28, 1916, Bureau of Education)

Hasluck The Teaching of History

Keatinge Studies in the Teaching of History

Articles in "The Historical Outlook" and other journals Simpson Supervised Study in History

Tryon The Teaching of History in Junior and Senior High Schools

MATHEMATICS

43 Arithmetic —A brief study of present-day movements in Arithmetic, the fundamental changes in the purpose and method of teaching arithmetic, the content selected for teaching, and the relation of arithmetic to the life of the child

The origin of number, the various steps involved in the development of the number idea, the unit, its nature and use, the necessity for standard units, number, a ratio

Methods Analysis and synthesis, induction and deduction, illustrated and applied, the use of concrete material and apparatus, use of graphic methods, drill and devices to secure neatness, accuracy and rapidity of computation, importance, place, and treatment of mental anthmetic Checking and verifying of results in arithmetic

The value of problems, selection of problems, interest in problems for which the pupils themselves furnish the materials, where and how to assist pupils, type solutions, the unitary method, its ments and limitations, solutions by full analysis and by performing only necessary operations

Fractions (a) vulgar, different interpretations, numeration and notation, operations, conditions under which these operations can be performed, measures and multiples, (b) decimal, as special fractions and as complements of common notation, correspondence of methods with those of integers. Approximations

Compound rules, tables of weights and measures, reduction, operations.

The metric system, when and how it should be taught

Square root by factoring and by the formal method, illustrated geometrically and algebraically

Commercial arithmetic how to make topics like discount, stocks, exchange, etc, concrete to the pupil, use of tables in calculating interest, discount, taxes, etc. commercial and business forms

Mensuration, the application of arithmetic to space relations, theoretical and practical methods of obtaining formulae, practical problems to show the use of these formulae, the necessity of models in teaching mensuration

Algebra —Anthmetical algebra, transition from arithmetic to algebra, generalization of language and of method, the introduction and defining of symbols, the negative quantity, the simple rules, the clastributive law, commutative law, index law, sign rule, the equation and its place in algebra, factoring, highest common factor and lowest common multiple, use of detached co-efficients, classes of simple equations, symmetry and its applications in elementary algebra, square root; method of dealing with problems and the object to be kept in view in their solution, verifying and checking results, correlation of algebra and geometry, graphical methods of allustrating formulae and of, interpreting the roots of equations

The theory of fractional and negative indices, surds and surd equations, quadratic equations of one and two unknowns, theory of quadratics, simple ratio and proportion

Geometry—Practical geometry to precede the theoretical, use of instruments, paper folding, necessity for accuracy, distinction between practical geometry and geometrical drawing, practical problems in the solution of transgles and in measuring heights and distances, limitations of appeals to the concrete, value of experimental proofs, need of clear and definite conceptions of the fundamental truths, the place of the definitions and axions, when and how they should be introduced, the proposition, homework and class-work, the analytic-synthetic method of dealing with propositions and deductions, the comparative values of propositions and deductions, the comparative values of propositions and feditions, original exercises, necessity of original work from the beginning of theoretical geometry, the indirect method of demonstration, methods of class teaching, importance of note-books for pupils exercises, the grouping and relating of propositions, practical applications, algebraic solutions, Euclid's method compared with modern methods, method of method method of method of the method of modern methods, method of method method of method of the method of modern methods, method of method in the method of method method of the method of mapping when the definition of the method of modern methods, method of
teaching the more important propositions and exercises in Book I of the authorized text

Books of Reference

Public School Manual in Arithmetic
McMurry Special Method in Arithmetic
Schultze The Teaching of Secondary Mathematics
Smith The Teaching of Elementary Mathematics
Suzzallo The Teaching of Primary Arithmetic

Young The Teaching of Mathematics

SEMINAR IN MATHEMATICS

44 The seminar in Mathematics will discuss methods in Trigonometry and the more advanced parts of algebra and Geometry, the ord presenting the parts of these subjects so as to secure the most logical and impressive relation among the parts, the relations of the subjects themselves, the place of the teacher in dealing with more mature minds, the history and development of such special topics as the algebraic equation, the vulgar and decembla fraction, loci, maxima and minima, theory of parallel lines, etc., examinations in mathematics, their purpose, when they should be held, the character of the paper, methods of marking, etc.

Books of Reference

Howell A Foundation Study in the Pedagogy of Arithmetic Fink A Brief History of Mathematics Schultze The Teaching of Secondary Mathematics Articles in "School Science and Mathematics"

GEOGRAPHY

45 Scope and Method of Geography Relationship to other subjects of the courses of study, general methods of presentation with advantages and disadvantages of each method

Regional Geography Maps, different kinds, importance of each, map drawing, use of pictures, globes and other visual aids, use of text-books, readers, reference books, methods of treatment of typical regions

Commercial Geography Factors determining commerce, chief commercial commodities, geographical factors determining their production and distribution, relation of physical features to commerce, commercial geography of selected regions, methods of treatment of typical problems

Physicarphy Relation of physical to commercial and regional geography, importance of experimental work, use of such and as contour, sobar, notherm, and weather maps, interpretation of the physical geography of Datarro A discussion of the method of treatment of topics difficult of presentation from the physical geography prescribed for the High Schools of Ontario.

Books of Reference

Public School Manual Geography
Wallis The Teaching of Geography.

Chisholm Handbook of Commercial Geography.

Lake Physical Geography

Andrew A Text-book of Geography

SCIENCE

46 The following are the main topics of the course

A Scope and value of the natural sciences, meaning of science and scientific method, educational value of science, inductive and deductive methods of investigation

Experimental work, how conducted, how recorded, manipulation of paparatus, glass-working, making of simple apparatus, classroom discussion, its purpose, method, and relation to the experimental work, the use of text-books, note-books, method of inspection, drawing, reference books, most sutable books in each subject for the library, supplementary reading, methods in biology, physics, and chemistry of the Lower School, illustrated in lessons upon subjects difficult of oresentation.

B Laboratory equipment for the teaching of Elementary Science, and of Physics, Chemistry, and Biology, methods of demonstration, use of technical terms, theories, facts, scientific laws, text-books and reference books

Chemistry Order of treatment, introductory work Methods of conducting insertuction in Chemistry will be discussed, and illustrative villed includes and allustrative and lessons upon subjects selected from such topics as the following chemical liaws and theories, valency, formulae and equations, nomenclature and quantitative experiments, chemical arithmetic, the elements with sodium and chlorine as types:

Physics Methods of conducting instruction in the more difficult parts of the courses in heat, light, sound, magnetism, electricity, and mechanics will be discussed and illustrated in lessons upon subjects selected from such topics as the following specific gravity, properties of liquids and gases, machines, temperature, specific heat, laws of reflection, images in mirrors and lenses, laws of vibrating strangs with problems, interference of sounds, lines of magnetic force, relation between statical and current electricity, practical applications of clientricity

Biology Dissection, experiments with plants, the microscope, aquaria and terraria, school museums, plant and animal ecology Methods of

conducting instruction in biology will be discussed and illustrated in lessons upon subjects selected from such topics as the following relation of structure to function, animal and plant types as the grasshopper, frog, hepatica, fern. This discussion will assume a practical acquantance on the part of the student with the common plants and animals of Ontario

Books of Reference

High School Manual. Suggestions for Teachers of Science Burlend First Course in Zoology Gregory and Summons Lessons in Science Twiss Principles of Science Teaching Lloyd and Bigelow The Teaching of Biology Smith and Hall The Teaching of Chemistry and Physics Woodhoad The Study of Plants

SEMINAR IN SCIENCE

47 Manipulation Practice with apparatus used in High School demonstrations, preparation of illustrative charts, the projection lantern, photography, preparation of lantern sides, care of aquaria and vivaris, growth of plants for experiments in vegetable physiology, collection and preservation of botanical and soological materia for Upper School work

Equipment Laboratory accommodation, arrangement of laboratories, lighting and ventilation, arrangement and structure of benches and other furniture, care and purchase of apparatus, chemicals and minerals, most suitable kinds, method of preparation and storage, reference works and periodicals in science for the Hish School library

Methods of treating topics difficult of presentation in physiography, physics, chemistry biology mineralogy and geology discussed, and illustrated in lessons selected from the following topics geological history of the Great Lakes in its relation to the physical features of Ontario, or aimmals, Afcodelian, plants in relation to insects, form and colour of animals, Mcodelian, plants in relation to insects, form and colour of lowers, parasitic and astrophysic plants, insectivorous plants, laws of combination in chemistry, symbols, formulae, and equations, valency, atomic and molecular theories, Buyl'es Law, Charles' Law, electron theory of matter, absolute temperature, relation of acceleration, momentum, force, and energy, surface tenson, flow of liquids

Books of Reference

Davis Natural History of Animals Ganong The Teaching Botanist Ganot Text-book in Physics Kerner Natural History of Plants

Laboratory Accommodation, Pamphlet No 9 of Department of Education of Ontario

Books of Reference -Continued

Mann The Teaching of Physics

Mellor Modern Inorganic Chemistry Twiss: Principles of Science Teaching

US Bureau of Education Bulletin 63, 1919 Natural Science

Teaching in Great Britain
US Bureau of Education Bulletin 26, 1920 Reorganization of
Science in Secondary Schools

SEMINAR IN AGRICULTURE

48 The history of agricultural education, especially in Denmark, the United States and Canada, methods of conducting laboratory and plot work, relation of the course in agriculture to vocational education, laboratory work

Books of Reference

Barkett, Stevens and Hull Agriculture for Beginners
Manual of Elementary Agriculture and Horticulture

Marshall Microbiology

Plumb Types and Breeds of Farm Animals Robinson Principles and Practices of Poultry Culture

Sanderson Insects of Farm, Garden and Orchard

Snydes Soils and Fertilizers Warren Elements of Agriculture

Waters The Essentials of Agriculture, Farm Management

Note Candidates for Specialists' certificates in Agriculture will take also the course in Science for High School Assistants

CLASSICS (LATIN AND GREEK)

49 The relation of method in teaching Latin or Greek to Inguistic method in general, the effect of the object of teaching Latin or Greek upon the method in various departments, such as oral reading, grammar, translation, sight reading, and the literary or historical content, illustration of methods in typical lessons

Pronunciation, oral reading, sight reading, and English translation as prescribed for Normal Entrance or Pass Matriculation; general principles of word-structure and sentence-structure, word order, methods of teaching the parts of a lesson, the direct method, topics of inflection and syntax as found in the Latin and Greek Books, special emphasis on difficult topics.

Books of Reference

Bennett The Teaching of Latin

Chickering and Hoadley Beginner's Latin by the Direct Method.
Crawford On Pronouncing Latin

Hale The Art of Reading Latin

Westaway Quantity and Accent in the Pronunciation of Latin Bristol The Teaching of Greek Thompson Homeric Grammar Goodwin Greek Grammar Goodell Greek Grammar

Goodel! Greek Grammar Arnold On Translating Homer

SEMINAR IN CLASSICS

50 In the seminar in Classics, topics are chosen germane to the teaching of Horace, Vergil, Cicero, Caesar, Xenophon, and continuous Latin prose composition. The following list will show the nature of the topics for discussion.

The teaching of Horatian metres, the poetic art of Horace, the translating of Horace into English prose, the use of metrical versions, certain Asclepiadean odes, the national odes, Horace's treatment of religion, death, friendship, and fortune, the selection of "fine lines", the complete teaching of an ode of Horace, the appropriate commentary

The teaching of Vergil in an honour class, the difficulties in translating what T Rice Holmes has done for the teaching of Caesar, the sequence of tenses in Caesar's indirect discourse, the teaching of Latin proce composition, the teaching of Xenophon in an honour class, the classical library.

The direct method in Latin and Greek

Books of Reference

Bennett and Bristol The Teaching of Latin and Greek Johnson Pamphleis on the Teaching of Caesar and Vergil Hale Pamphlets on the Art of Reading Latin Articles in the "Classical Journal"

FRENCH, GERMAN, OR SPANISH

51 Introductory Importance of the study of a modern language, aims of the study

Study of Methods A comparison of methods in view of the present conditions in the schools, e_R , the age and attainments of pupils, the size of classes, allotment of time, text-books in use, regulations governing the teacher, illustrative lessons

Pronunciation Study of phonetics, theory and practice

Elementary Classes Classes conducted without a text-book, conversation lessons, how to make use of the objects of the classroom, pictures and drawings, unison work, variety and interest, dictation, note-books and their correction, picture lessons, necessity for thorough drill

Grammar Inductive and deductive teaching, grammatical rules and their value, special illustrative lessons on essentials

the recitation Special consideration of selected passages from the Reader and the Authors prescribed for Junior Matriculation

Composition to be based on models, free reproduction, original essays: writing of letters, methods of correction, training in the use of the dictionary

Books of Reference

Bagster-Collins The Teaching of German Bahlsen Teaching of Foreign Languages Dumville French Pronunciation Heath Report of the Committee of Twelve Jespersen How to Teach a Foreign Language Palmer, Scientific Study and Teaching of Languages Savory and Iones Sounds of the French Language Vietor German Pronunciation

SEMINAR IN FRENCH AND GERMAN

52 The seminar will lay stress upon the consideration of the value. aims, and methods of linguistic training, the relation of linguistic training to literary culture. history of methods formerly employed in the teaching of modern languages in the secondary schools of France, Germany, Great Britain, and the United States, the necessity for better methods in Ontario, the Direct Method illustrated in the class-room, a study of French life, manners, and institutions, the importance of pronunciation, the value and use of phonetic symbols, use of phonetic charts and wallpictures, typical lessons in advanced grammar, conversation, translation, sight reading, prose composition, free reproduction exercises, dictation, and audition, writing and correction of passages in French composition, consideration of books helpful to the teacher, the extent of the courses in the Upper School, writing essays on allotted subjects

Books of Reference

Bayster-Collins German in Secondary Schools Bahlsen Teaching of Modern Languages. Brebner Method of Teaching Modern Languages in Germany Breul Teaching of Modern Languages Dumville French Pronunciation Geddes French Pronunciation Gouin The Teaching and Studying of Languages Gours Teaching by the Direct Method Tespersen How to Teach a Foreign Language Kittson Theory and Practice of Language Teaching Ricomann Elements of Phonetics Savory and Iones Sounds of the French Language Sweet Practical Study of Languages

Walter Zur Methodik des neusprachlichen Unterriches

VOCAL MUSIC

VOCAL MUSI

53 Tune All intervals of the Major Diatonic Scale, both from the Tonic Sol-Ia and staff, the relative minor, transition

Time Whole pulse, continued pulse, silent pulse, and pulse divided into halves, quarters, and thirds with the various combinations of these in simple and compound duple, quadruple, and triple times All the above in both the Tonic Sol-fa and staff notations

Ear-training in Time and Tune Recognition of rhythm and tone, of short musical phrases when played or sung, and their expression in either notation

Voice-culture Breath-control, tone production, vowel-formation, enunciation of consonants, correct intonation, blending of registers, and general training for quality, range, and flexibility

Sight-singing Singing from pointing on modulator or staff. Singing at sight easy passages containing the varieties of time and tune mentioned above.

Songs The study of songs, in one or two parts, suited to the requirements of pupils in various school grades, with special attention to accent, enunciation, phrasing, quality of tone and expression

Notation Elements of notation, both Tonic Sol-fa and staff, the formation of the major and minor diatonic scales, elements of modulation and transposition

Vocal Physiology Anatomy of lungs, larynx, and resonating cavities, comparison of abdominal, intercostal and clavicular methods of breathing, action of vocal chords in production of tone and of the various vocal registers, influence of resonating cavities upon quality of tone and vowel, care of voice in soeaking and simone

Methods The grading of school music to suit the development of the pupils and the methods of teaching both systems

Books of Reference

Crincan The Educational Music Course

Cringan Teacher's Handbook of Tonic Sal-fa System

Curwen The Standard Course

Curwen The Teacher's Manual

Hardy How to Train Children's Voices

Hulbert Breathing for Voice Production

Mason How to Teach the Staff Notation

SEMINAR IN HOUSEHOLD SCIENCE

54 The development of Household Science, the relation of household science to the other subjects of the curriculum, its value and aims, household science in the Public School, in the High and Technical Schools and

in the University, accommodations and equipment for household science work in the various types of schools courses of study, methods of instruction, use of equipment and note-books, use of text-books, discussion of selected parts of the High School course of study

Books of Reference

Ontario Public School Manuals Household Science for Rural Schools, Household Management, Sewing

Balderston Housewifery

Baldt Clothing for Women

Cooley, Winthell, Spohr, Marshall Teaching Home Economics Kinne Equipment for Teaching Domestic Science

PHYSICAL CULTURE

55 PRINCIPLES (For men and women)

Anatomy Bone, composition, classification, bones of the vertebral column, bones of the head, bones of the abdomen and thorax, bones of the lower extremity Joints Classification and description of movable joints, importance of joints Muscle Varieties, origin, insertion and action Digestive system, stomach, liver, etc Circulatory system heart, arteries, veins, etc. Respiratory system Nervous system

Physiology Oxidation and waste, metabolism, blood, composition, quality, the heart beat, respiration, mechanism, changes in the lungs, in the tissues, nervous mechanism of respiration, physiology of muscle Digestion, digestive juices, function of saliva, gastric juice, pancrestic juice, and bile, succisis enterioris, changes in the food in the alimentary canal, lymph, movements, absorption Nutrition, comparison of income and output of material, animal heat, diet

First Aid to the Injured Shock, wounds, bleeding, burns, exposure to cold, frostbite, fractures, sprains and dislocations, restoration of the apparently drowned, choking, foreign bodies in eye or ear, unconsciousness, fainting, apoplexy, heatstroke, poisons, bandaging

Personal Hygiene

Practice (For men only)

Calisthenics Dumb-bells—Roberts, Barton, combinations, wands—elementary, Barton, miscellaneous, clubs—class club-swinging.

Elementary Exercises on Apparatus Horse vaults, flank, front, rear, screw, squat, straddle, wolf, mats jumps and hops, jumps and hops with turns, underswings, underswings with turns, buck, vaults, same as on horse and vaulting bar

Indoor Games, Course to enable teachers to coach and referee the following games basketball, indoor baseball, volleyball

Outdoor Athletics Field and track sports Course to enable teachers to coach athletics and to direct athletic meets, starting, sprinting, running, broad jump, high jump, shot put, hurdles

Boxing and single sticks, bayonet exercises, squad and company drill, rifle and musicerry practice and skirmishing, saluting, signalling, instruction in use of sultrares.

Swimming Elementary

Mutual instruction in the various exercises

PRACTICE (For women only)

Squad drill, marching tactics, wheeling, turnings

Freehand exercises, including Strathcona Trust exercises, dumb-bell drills, elementary, advanced, wand drills, Barton, Anderson's twist drill, clubs, classified exercises

Elementary exercises on the following apparatus horse, mats, vaulting bar, buck, rings, Swedish stall bars, suspended ladder

Indoor Athletic Sports Running races, gymnasium games, including basket-ball, schoolroom and playground games

Dancing Technique of dancing, simplified athletic dances, folk dances and singing games, old English country dances

Swimming Elementary

Mutual instruction in the various exercises

Books of Reference

The Syllaons of Physical Exercises for Schools Birton Physical Training

Bancrott Games for Playground, Home, School and Gymnasium Burchenal Dances of the Popple

Burchenal Fulk Dances and Singing Games

Chalif Chalif Text book of Dancing

Corsan At Home in the Water

ART

THEORY AND PRACTICE

56 A. PLEPESENT TION

(1) Pencil and Charcoal Drawing

The proper hundles on the lead pencil and chargoal

The prime t>0 do, v in , (1) in outline, (2) in neutral tones to represent colour v theorem t^{-1} (1) and shock

The remember of thementure perspective

The study of the effects of light and shade and shadow

The ready of the lays of composition in the reading arrangement of the edge in an all groups

Freehand drawing, above and below the eye level, in outline, and in neutral tones, (1) from common manufactured objects of curvilinear and of rectilinear form, and (2) from natural forms, as flowers, fruits, plants, trees insects animals etc

Freehand drawing from memory

(2) Blackboard Drawing

Practice in making rapid sketches on the blackboard to ensure its use by the student-teacher in teaching other subjects of school study besides art

(3) Modelling

Modelling in clay and in plasticine of simple forms

Casting in plaster

(4) Water Colour Pasnisne

The theory of colour, colour perception, spectrum standards, properties of colour (hue, value, intensity), colour harmony (complementary, analogous, contrasted, and monochromatic scales)

Construction of colour charts

Brushwork in monochrome

Water colour painting from common manufactured objects, and from natural forms, of a single object and of small well-composed groups

B DESIGN AND LETTERING

(1) Decorative Design

The principles of decorative design

The use of geometric and of natural forms in design

The making of decorative designs and applying them to useful purposes.

The completion of decorative designs in balanced neutral tones and in

harmonious colour schemes
(2) Lettering

The principles of lettering

Lettering with the freehand and with mechanical aids

The adaptation of lettering in exercises in applied design

C ART APPRECIATION AND THE HISTORY OF ART

Pictorial Composition The essential artistic qualities of pictures-in line, tone, and colour

The study of masterpieces Essays

Hustration of given themes

Visits for study to the Museum and the Gallery of Art

The study of home and school furnishings and decoration

An outline of the History of Art

D METHODS OF TEACHING ART IN HIGH AND CONTINUATION SCHOOLS

The Regulations of the Department of Education

The real objects to be sought in the teaching of Art, involving a consideration of its relation to the life of the student and to the interests of the community

The organization and equipment of classes

The care of materials and of drawings

The courses of study A natural order and method of development of the subjects and the principles of these courses Methods of teaching form (including proportion and perspective), tone,

colour, composition, decorative design, handling of mediums, and the appreciation of pictures

The preparation of studies for class work

The division of the time given to Art The correlation of Art with other

Conducting examinations in Art Points to stress in criticising and valuing drawings

A discussion of teaching difficulties and methods of overcoming them

A description of teaching helps and information as to how and where they may be secured

Books of Reference

Ontario Teachers' Manual Art

Branch Illustrated Exercises in Design

Caffin A Guide to Pictures

Caffin How to Study Pictures

Cross Colour

Cross Light and Shade

Low Composition

Hatton Perspective

Norton Freehand Perspective and Sketching

Prang's Art Education for High Schools

Reinach Apollo—Story of Art throughout the Ages Seaby Blackboard Drawing

Simonds Modelling in Clay and Wax

Strange Handbook of Lettering

Taylor Elementary Art Teaching

COURSE FOR ORDINARY CERTIFICATES IN HOUSEHOLD SCIENCE

PURPOSE

The course for Interim Ordinary certificates in Household Science prepares candidates therefor in the theory and art of organizing, governing, and instructing in Household Science the pupils of the Public, Separate, and High Schools of Ontario

CONDITIONS OF ADMISSION A candidate for admission to the course for the Interim Ordinary

certificate in Household Science should make application, not later than September 30th, on a form to be obtained from the Secretary of the Ontario College of Education and should submit with this application

- (1) A certificate from a competent authority that she is a British subject
- (2) A certificate from a clergyman or other competent authority that she is of good moral character
- (3) A certificate from a physician that she is physically able for the work of a teacher and, especially, that she is free from serious pulmonary affection and from defective eyesight or hearing
- (4) A statement signed by herself to the effect that she intends, when opportunity offers, to teach the subject of Household Science
- (5) One of the following
- (a) A Second-Class or First-Class Public School or an Ordinary High School certificate
- (b) A Kindergarten-Primary or a Kindergarten Director's certificate together with Normal Entrance, Paculty Entrance, or equivalent certificates under other names

FEES

- (1) The annual fee, which shall include tuition, laboratory supplies, and the use of the library shall be \$25.00
- (2) At the beginning of the session, a deposit of \$4.00 will be required from each student. This deposit, less the cost of equipment and apparatus that may have been destroyed, will be returned at the close of the session.
- (3) If a student who has been granted an Ordinary Certificate teaches the subject of Household Science in a school in the Provincial system during the year following the examination, the fee of \$25 will be returned to her on the report to the Minister of Education by the Inspector of Household Science that the work has been satisfactorily performed Applications for such refunds should be made to the Deputy Minister of Feducation.

COURSES IN HOUSEHOLD SCIENCE-Continued

COURSE OF STUDY

The Course of Study for the Ordinary certificate in Household Science includes the following

PART I

FOODS

Economics — Marketing, points to be considered in selection, factors determining cost, saving of materials, fuel, and labour in preparation, care in the home, utilization of left-overs

Food Values —Composition of foods, requirements to maintain the body in health, factors influencing diet, digestion of foods, menu planning, diets for infants, children, and adults, special diets for use in the home care of the sick

Preparation — Scientific principles underlying methods of preparation; application of these principles by preparing food materials, practical and theoretical demonstration work, meal preparation (children's meals, home meals, the tural school lunch, etc.)

Table Service and Manners

Special Schoolroom Methods

CLOTHING

Selection —Origin and manufacture of cotton, linen, wool, and silk, their properties and value in relation to their manufacture, identification of textile materials (names, widths, prices, uses)

Construction —Handsewing (constructive processes applied to simple articles), use and care of sewing machine and its attachments, use of home and commercial patterns, cutting and making of simple garments

Care — Daily, weekly, and seasonal, removal of stains, repairing Special Schoolroom Methods

HOUSEHOLD MANAGEMENT

The House—Planning, furnishing, care (study of reagents, cleaning of metals, woods, textiles, laundry work), demonstrations, household administration (problems and technical procedures in the management of the modern home)

Santiation —Effect of environment on health, sanitary control of surroundings, disposal of waste

Home Nursing - Care of the infant, child, and adult, emergencies, bandaging

Special Schoolroom Methods

COURSES IN HOUSEHOLD SCIENCE-Continued

ELEMENTARY APPLIED SCIENCE

Chemical composition and reaction of household materials, physiological values of foods and changes which they undergo in digestion, putrefaction, etc., testing of water, carbohydrates, proteins, fats, vegetables, flours, cereals, baking powders, beverages, etc

GENERAL METHODS IN HOUSEHOLD SCIENCE

Aims in teaching Household Science, scope of Household Science, relation to other subjects, methods of presentation in different types of schools, planning of courses, equipment, cost of lessons, etc. General discussions

PART II

Observation and Practice-teaching will be provided in the Public and High Schools of Toronto and will include a minimum of six practice lessons per student with an equal number of periods for observation lessons

EXAMINATIONS

(1) Candidates for Ordinary certificates shall pass in each of Parts I and II under the following conditions

(a) Part I

The following shall be the subjects in Part I with the maximum value for each subject

| Foods | (200) |
|--------------------------------------|-------|
| Clothing | (200) |
| Household Management | (200) |
| Elementary Applied Science | (100) |
| General Methods in Household Science | (100) |

The standing of candidates in the subjects of Part I will be determined by the sessional records and the final written examinations

The sessional records, to which shall be allotted one-half the maximum value assigned above to each subject, shall consist of the daily credits and of the results of oral, written, and practical tests given throughout the session

The final written examinations, to which shall be allotted the remaining half of the maximum value assigned above to each subject, shall include the following papers

Foods, 2 papers Clothing, 2 papers Household Management, 2 papers

COURSES IN HOUSEHOLD SCIENCE-Continued

Elementary Applied Science, 1 paper

General Methods in Household Science, 1 paper

The pass standard in Part I shall be 50% of the marks assigned to each subject

(b) Part II

The standing of candidates in Part II shall be determined wholly by the sessional records For this purpose the maximum value assigned to practice lessons shall be 300, and to observation lessons, 100

The pass standard in Part II shall be 60% of the aggregate of the marks for the practice lessons and for the observation lessons respectively

(2) (a) Candidates who pass in Part II and fail in not more than two subjects of Part I will be exempted from further attendance

(b) All other candidates who fail to obtain the necessary final standing will be required to attend another session, beginning after the Christmas vacation.

(3) (a) Candidates who are exempt from attendance under (2) (a) above may complete their standing for a certificate by taking, at one annual examination, or, separately, at different annual examinations the examination, written or practical or both, in the subject or subjects in which they failed

(b) The pass standard for candidates not in attendance will be the same as that for candidates in attendance, but no allowance will be made for sessional work in the case of those not in attendance.

CERTIFICATES

A candidate who takes the subjects and passes the examinations therein prescribed above shall be entitled to an Interim Ordinary Household Science certificate which shall be valid in these subjects in any Public, Separate, or High School of the Province, and will be made Permane on the report of the Inspector or Inspectors concerned that the holder thereof has taught successfully the subjects thereof for at least two will.

The Interim Certificate may be renewed under conditions satisfactory to the Munster

COURSES FOR DEGREES IN PEDAGOGY

The Ontario College of Education offers courses of instruction for the degrees in Pedagogy during the regular College Sessions and during Summer Sessions

DEGREES OF BACHELOR OF PEDAGOGY (B PAED)

- The degree of Bachelor of Pedagogy (B Paed) will be awarded under the following conditions
- The candidate shall hold an approved degree in Arts, Science, Agriculture, Engineering, or Commerce
- 2 The candidate shall be in attendance at the Ontario College of Education during two regular College Sessions or three Summer Sessions A High School Assistant's, or Furs Class, or Second Class certificate valid in Ontario or a regular course in an approved training school for teachers will be accepted in lieu of attendance during one of these regular sessions or one of the Summer Sessions.
- 3 The course shall consist of three subjects to be taken in any order and to be selected from the following
 - Group A -- Science of Education, Educational Psychology
 - Group B -History of Education, Educational Administration
- Not more than two of these subjects shall be taken during a regular Session and not more than one during a Summer Session
- Candidates who, under Section 2 above, are exempted from attendance during one regular Session or one Summer Session will be exempted also from the instruction and examination in one of the three subjects, provided that the degree be awarded only to candidates who have taken the instruction and examinations in at least one subject in each of the two groups of subjects
- 4 The examinations shall be held in May at the University of Toxonto or in any other locality in the Province chosen by the candidate and approved by the Senate and under a presiding examiner appointed by the Senate, provided the candidate thereat defary the cost of the local examinations. The candidate shall send notice not later than the 15th day of March of his intention to take the examinations and of the locality he has chosen for such examination.
- 5 The fee for regular Session, which shall include the examination and library fees, is \$25 The fee for examination is \$3 for each subject. The fee for the degree is \$20 All fees shall be paid to the Bursar with the application for resistations or examination, as the class may be

- 6 The standard for a Pam degree shall be 60 per cent of the marks assigned to each subject. The candidate who obtains 60 per cent of the marks of each subject, and 66 per cent of the aggregate of marks, shall be awarded a degree with Second Class Honours. The candidate who obtains 60 per cent of the marks of each subject and 75 per cent of the aggregate of marks shall be awarded a degree with First Class Honours. On the report of the instructors concerned, a maximum of 40 per cent of the marks in any subject may be assigned to the term work of the candidate.
 - 7 Subjects of Instruction and Examination
- (a) The Science of Education, including a study of the philosophical, ethical, and sociological bases of education (Two papers)
 - (b) Educational Psychology (Two papers)
- (c) The History of Education in Western Europe and North America in modern times, with special reference to Ontario, Great Britain, and the United States (Two papers)
- (d) Educational Administration in Great Britain, the United States, France, and Germany, with special reference to the administration and organization of education in Ontario (Two spacers)

DEGREES OF DOCTOR OF PEDAGOGY (D PAED)

The degree of Doctor of Pedagogy (D Paed) will be awarded by the School of Graduate Studies under the following conditions

- 1 The candidate shall hold an approved degree in Arts or Science or in the applied sciences of Agriculture, Engineering, or Commerce.
- 2 The candidate shall be in attendance at the Ontario College of Education during three regular College Sessions for for Summer Sessions A High School Assistant's, First Class, or Second Class certificate valid in Ontario, or a regular Coune is an approved training school for teachers will be accepted in lieu of the attendance during one of these regular Sessions or one of the Summer Sessions or one of the Summer Sessions.
- 3 The Course shall consast of the four subjects and a thess as defined in Sections 5 and 7. The subjects may be taken in any order, provided that not more than two be taken in any regular Session and not more than one in any Summer Session. Candidates who, under Section 2, are exempted from attendance during one regular Session or one Summer Session will be exempted also from the instruction and examination in one of the four subjects.
- 4 The examinations shall be held at such times and under such conditions as to date of application, place of examination, percentages, etc., as obtain with the Bachelor's degree

- 5 The candulate, after passing the prescribed examinations, shall also submit on or before March last, at heaso an some educational topic selected with the approval of the Ontario College of Education. In valuing this takes in terary excellence, as well as the discussion of the subject, will be taken into account. After the examiners have reported in favour of the andidate's examinations and them, and before the degree of D Paed is a conferred, the candulate shall furnish the Secretary of the School of Graduate Studies with twenty-five conies of the thesis.
- 6 The fee for registration, if not already registered in the B Pacel Courses, is \$5 The fee for the Summer Session is \$10, that for the regular Session, which shall include the examination and library fees, \$25 The fee for examination is \$3 for each subject. The fee for the degree is \$25 All fees shall be out to the Bursar with the anolication.
 - 7 Subjects of Instruction and Examination
- (a) The Science of Education, including a study of the philosophical, ethical, and sociological bases of education (Two papers)
 - (b) Educational Psychology (Two papers,)
- (c) The History of Education in Western Europe and North America in modern times, with special reference to Ontario, Great Britain, and the United States (Two papers)
- (d) Educational Administration in Great Britain, the United States, France, and Germany, with special reference to the administration and organization of education in Ontario. (Two appers.)

EDUCATION FELLOWSHIPS

Four fellowships of not less than \$\$500 each are offered annually to teachers who undertake to pursue graduate was in Education leading to the degree of D Paed or Ph D On the recommendation of the instructors concerned these fellowships may be renewed for a second year Applications for these fellowships should be addressed to the Dean of the Ontano College of Education not later than June 1st of each work.



FACULTY OF FORESTRY

BACHELOR OF THE SCIENCE OF FORESTRY

ENTRANCE REQUIREMENTS

A candidate for admission to the First Year in the Faculty of Forestry must produce satisfactory certificates of good character and of having completed the seventeenth year of his age on or before the first of October of the year in which he proposes to register

He must also present certificates giving him credit in the following subjects of Pass and Honour Matriculation

PART I-PASS MATRICULATION

ENGLISH (Literature and Composition)
HISTORY (British and Ancient)
MATHEMATICS (Algebra and Geometry)

Any three of

LATIN (Authors and Composition)

GREEK (Authors and Composition)
FRENCH (Authors and Composition)

GERMAN (Authors and Composition)

SPANISH (Authors and Composition) or

ITALIAN (Authors and Composition)

EXPERIMENTAL SCIENCE (Physics and Chemistry) or

AGRICULTURE

AGRICULTURE

AGRICULTURE

PART II-HONOUR MATRICULATION

ENGLISH (Literature and Composition)
MATHEMATICS (Algebra, Geometry and Trigonometry)

Any one of LATIN (Authors and Composition)

FRENCH (Authors and Composition)

GERMAN (Authors and Composition)
In selecting the options it is recommended that students take French
or German in Part III

Admission may also be secured by candidates who (1) possess a degree in Arts from any Canadian, Britath or American university of approved standing, (2) come from other institutions whose certaficates are recognised by the University of Toronto as equivalent to the above entrance requirements, and will be accepted from land, or (3) have completed a year, or the examinations for the year, with satisfactory standing, in the Feacilities of Arts, Medicine or Anolded Science.

In addition to the academic requirements, a robust physique and good eyesight are essential in the practice of the profession, and candidates markedly deficient in these will be advised not to proceed. Deficiency in eyesight will be found a particular handicap in future practical employment

Occasional Students may be admitted to not more than three forestry subjects

REGISTRATION AND ENROLMENT

Applications for admission, together with matriculation or equivalent certificates, should be forwarded to the Registrar of the University at as early a date as possible

Students must complete their registration in person on or before the first day of the session, September 30th. On the same or the preceding day students will enrol with the instructors in their various courses

Students who have not complied with the regulations for regarration and enrolment may be admitted only upon petition to the Faculty and for good reasons. They may be refused enrolment with classes unless the head of the department is eatisfied that they are able to go on with the class. A charge will be made for late resurstation

REGULATIONS RELATING TO STUDENTS IN ATTENDANCE

No student will be enrolled in any year, or be allowed to continue in attendance, whose presence is deemed by the Council of the Faculty to be oreudicial to the interests of the University

Students proceeding regularly to the degree are required to attend the courses of instruction and the examinations in all subjects prescribed for students of their respective standing, and no student will be permitted to remain in the University who persistently neglects academic work

Unless special permission is granted by the Council, a student who, at the close of two sessions in the University, has failed to secure standing in his year, will not be permitted registration in the Faculty of Forestry

The Students' Administrative Council has been entrusted by the Caput with supervision of the conduct of the students, and has power, subject to the approval of the Caput, to deal with violations of the regulations governing conduct

Any student who may be convicted of having taken part in a parade or procession through the city which has not been authorized by the police authorities, after application by the Executive of the Students' Administrative Council, will be severely disciplined

All interference on the part of any student with the personal liberty of another by arresting him, or summoning him to appear before any unauthorized tribunal of students, or otherwise subjecting him to any indignity or personal violence, is forbidden by the Caput

A student who is under suspension, or who has been expelled from a College or from the University, will not be admitted to the University buildings or grounds

The constitution of every University society or association of students in the Faculty of Forestry and all amendments to any such constitution

must be submitted for approval to the Council of the Faculty All programmes of such societies or associations must, before publication, receive the sanction of the Council of the Faculty through the President Permission to nivite any person not a member of the faculty of the University to preside at or address a meeting of any society or association must be similarity obtained

The name of the University is not to be used in connection with a publication of any kind without the permission of the Caput

FEES

Regular Students in Forestry

First, Second, Third and Fourth Years Annual fee, including instruction, main library, laboratory supply, and one annual examination, \$80.00

| If paid in full in October | \$80 00 |
|---------------------------------------|---------|
| By instalments — | |
| First instalment, if paid in October | 40 00 |
| Second instalment, if paid in January | 41 00 |

Occasional Students

The fee for occasional students is \$5.00 for the term for each course taken

Penalties

After October 31st, a penalty of \$1 00 per month will be imposed upon tuition fees until the whole amount is paid. In the case of payment by instalments the same rule as to penalty will apply

Students attending Fall Practice Camp will be allowed until November 15th to pay fees Fees for Practice Camp, however, are due September 30th

General Fees

| Annual deposit for the departmental library | \$ 1 | 00 |
|---|------|----|
| Supplemental Examinations | 10 | 00 |
| Admission ad eundem statum. | 10 | 00 |
| Degree of B Sc F | 10 | 00 |
| Degree of F.E. | 20 | nr |

To defrav expenses of the practice camp a deposit of approximately \$70.00 will be required from Fourth Year students

Foresters' Club

| Annual fee | | | \$2 00 |
|---------------|---------|---------------|--------|
| Fee. Forestry | Athletu | c Association | 2.00 |

Hart House, Students' Administrative Council and Physical Training

| Hart House, annual fee | \$8 00 |
|---|--------|
| Students' Administrative Council, annual fee | 3 00 |
| Physical Training, annual fee, First and Second | |
| Years only | 5 00 |

Every male student in attendance, proceeding to a Bachelor's degree in the Faculty of Forestry, is required to pay to the Bursar before December 1st the annual fee of eight dollars for the maintenance of Hart House If this fee is not paid by the above date a penalty of two dollars will be imosed, makine the total fee ten dollars

Every male student in attendance proceeding to a Bachelor's degree in the Faculty of Forestry is required to pay to the Bursar at the tin e of the entry of his name with the Registrar the annual fee of three dollars for the maintenance of the Students' Administrative Council

All fees are payable in advance

A student may not be admitted to any of the University lectures or aboratories who is in arrears for his fees.

A student is responsible for complete fees for the year, even for partial attendance, unless he submits a written statement of his withdrawal to the Dean Any candidate for a degree must pay full fees for the year in which he is in attendance upon any one or more courses

DEGREE

The satisfactory completion of the tour-year course leads to the degree of Bachelor of the Science of Forestry (B Sc F)

The Faculty of Forestry grants the degree of Forest Engineer (F E) to the graduates holding the degree of B Sc F, who, after three years' employment in forestry work, present an acceptable thesis, the details to be arranged and the subject to be previously approved by the Faculty

SCHOLARSHYPS.

Forestry graduates are eligible as candidates for the 1851 Exhibition Science Research Scholarship Information with regard to this is given on pages 75 and 77 of the calendar of the Faculty of Arts

PHYSICAL TRAINING

By order of the Board of Governors each male student proceeding to a degree must take Physical Training in the first and second years of his attendance He must first undergo a medical examination by the Physical Director of the University in order to determine the character of his training.

It is specially desired that students obtain training in swimming

No student will be allowed to write on the annual examination who has no pard all fees and dues for which he is liable. A student who fails to perform the work in his course in a manner satisfactory to his instructors will not be allowed to present himself at the final examinations except by social permission of the Council

The standard for pass in these examinations in all courses, whether taken in the Faculty of Forestry or any other Faculty, is 50 per cent of

the marks for each subject

In making up the final standing of each candidate much consideration will be given to the character of his work through the term, including attendance, laboratory and field work, reports and term examinations

Candidates who fail at the annual examinations in more than imo subjects cannot proceed to the next year unless they have attained at least 70 per cent on the average in all other subjects, when their case will be specially considered

Candidates who fail in one or two subjects at the annual examinations, only one of which may be a forestry subject, may be allowed to take supplemental examinations in such subjects. These supplemental examinations must be taken in Arra subjects in September at dates set by the Faculty of Arts, in forestry subjects before December 15th. Students who are prevented by fieldwork or by sickness from writing in September may be permitted to write in January

Candidates are required to send to the Secretary of the Faculty at least three weeks before the date of supplemental examinations, notice in writing of their intention to take such examinations, and at the same time the fee of \$10 (both September and January supplemental examinations) must be paid to the Bursar, and no student will be allowed to write who has failed to meet his fee.

If a candidate fail to pass a supplemental examination in a subject which is not base to other subjects, he may carry it upon pertion the next examination, but if it be a subject fundamental to a subject of the year to which he wishes to advance he must take the subject over again (and if he fail in any three subjects he will be obliged to repeat the year?) A student failing in liboratory work must receast the same

No candidate for a degree will be allowed to pass into the next higher year who has not fulfilled all the requirements of the next lower year

INSTRUCTORS AND COURSES IN FORESTRY

Courses other than forestry are given in the Faculties of Arts, and Applied Science and Engineering

C D Howe, MA, PhD,

Dean and Professor

J H White, MA, BScF, PhD,

Associate Professor

W N MILLAR, B Sc. MF. Associate Professor

T W DWIGHT, B Sc F , M F , Associate Professor

OTHER FACULTIES

F B ALLAN, MA. PhD. Professor of Organic Chemistry

L ALLEN, Ph D.

Assistant Professor of French

J G ANDISON, BA, AM,

Lecturer an French I W BAIN, BASe, FIC.

Professor of Chemical Engineering

E W BANTING, BASC. Assistant Professor of Surveying

E F BURTON, BA, PhD.

Associate Professor of Physics

I H CAMERON, MA.

Professor of French

I R COCKBURN, BASC. Associate Professor of Descriptive Geometry

S R CRERAR, BASc.

Assistant Professor of Surveying

J H FAULL, BA, PhD, Professor of Botany

H W A FOSTER, LL B. Lecturer in Commercial and International Law

L GILCHRIST, MA, PhD,

Assistant Professor of Physics

G E TACKSON, BA.

Associate Professor of Political Economy

F B KENRICK, MA. PhD. Professor of Chemistry

H A McTaggart, MA, BA,

Assistant Professor of Physics

E S MOORE, M A . Ph D . Professor of Economic Geology

W A PARKS, BA, PhD.

Professor of Palaeontology A L PARSONS, BA,

Associate Professor of Mineralogy

J SATTERLY, MA, DSc, Associate Professor of Physics JE THOMSON, Assistant Professor of Muneralogy E M WALKER, BA, MB, Associate Professor of Biology

PLAN OF INSTRUCTION

The regular course leading to the degree of Bachelor of the Science of Forestry is a four-year course, the first two years of which are mainly devoted to the study of the fundamental subjects. The last two years are mainly occupied with forestry subjects, there being also time allowed, especially in the last year, to add general educational subjects and to specially in the control of the Dean.

Students are required to take either French or German and the language chosen must be continued for three years

The courses are distributed through the four years as follows -

Note—Numbers after the subjects refer to numbers of the courses as designated in the Calendars of the Faculties of Arts, Forestry, and Applied Science and Engineering, according to the Faculty in which the course is given. The work is stated in terms of the number of lecture or laboratory periods per week.

I YEAR

- 1 Elementary Physics (Arts 28) Two lectures and one laboratory period through the session
- 2 Elementary Chemistry (Arts 1, 14) Two lectures and one laboratory
- period through the session

 3 Elementary Botany (Arts 5 and 6) Two lectures and two laboratory
- periods, first term.

 4 Elementary Zoology (Arts 5 and 6) Two lectures and two laboratory
- periods, second term

 5 French (Arts, Special) or German (Arts 1b) Two lectures through the
- 6 Elementary Forestry (Forestry 1) One lecture through the session

session

7 Descriptive Dendrology (Forestry 2a) Three hours lecture and laboratory work through the session, Saturday field work first term

II VEAD

- Elementary Organic Chemistry (Arts 3) Two lectures through the session
- 2 Elementary Geology (Applied Science and Engineering 195) Two lectures through the second term

- 3 Mineralogy (Applied Science and Engineering 257 and 259) Twenty-five lectures and forty hours laboratory
- 4 Surveying, Plane, and Map Drawing (Applied Science and Engineering 270, 271) One lecture and two laboratory periods through the session
- 5 French (Arts, Special) or German (Arts 2b) 1 wo lectures through the session
- 6 Forest Mensuratson (Forestry 7a) Two lectures and one half day field or office work through the session
- 7 Dendrology (Forestry 2b) Three hours laboratory work through the session
- 8 Biological Dendrology (Forestry 5) Two lectures and two laboratory periods through the session

STIMMER WORK

9 Employment in the field by Dominion or Provincial government or by private companies

III VEAD

- 1 Glacial Geology and Physiography (Arts 13) One lecture through the
- 2 Principles of Economics (Arts 3e) Two lectures through the session
- 3 Commercial Law (Arts 4e)
 4 Surveying, Topographical
 Engineering 272, 273)
 One lecture through the session
 and Map Drawing (Applied Science and
 Engineering 272, 273)
 One lecture and three laboratory periods
- through the session

 French (Arts, Special) or German (Arts 3a) Three lectures through the
- 6 Forest Mensuration (Forestry 7b) One lecture and one laboratory period through the session
- 7 Silvics (Forestry 9) Two lectures through the session
- 8 Silviculture (Forestry 6a) Three lectures first term
- Silviculture (Forestry 6b) Two lectures second term One week at Provincial Forest Station and nursery
- Silviculture (Forestry 6c) Fifteen hours laboratory work
- 9 Forest Utilization (Forestry 8a) Three lectures through the session and ten days' trip to logging camp during the Christmas vacation, beginning December 19

SUMMER WORK

10 Employment in the field by Dominion or Provincial government or by private companies

IV YEAR

1 Applied Chemistry (Applied Science and Engineering 112) One lecture through the session

- 2 Plant Pathology (Arts 25) Seventy-five hours lecture and laboratory
- 3 Economic Entomology (Arts 37) Two lectures and two laboratory periods through the second term
- 4 Forest Organization (Forestry 11) One lecture through the session, ten seminars, second term
- ten semmars, second term

 5 Forest Valuation and Finance (Forestry 12) One lecture through the session, theory and problems
- 6 History of Forestry (Forestry 13) One lecture through the session 7 Forest Administration (Forestry 14a and 14b) One lecture through the
- 7 Forest Administration (Forestry 14s and 14b) One lecture through the session
 8 Forest Protection (Forestry 10s and 10b) One lecture through the
- session and one week at practice camp at opening of session
 9 Forest Utilization (Forestry 86) One lecture through the session and
- 9 Forest Utilisation (Forestry 86) One lecture through the session and one afternoon weekly for visits to wood-using plants

 10 Forest Utilisation (Forestry 8c) One lecture through the session
- 11 Forest Mensuration (Forestry 7c) Three weeks field work at practice camp at opening of session
- 12 Wood Identification and Timber Physics (Forestry 4a) Two lectures and six hours laboratory work first term
- 13 Wood Technology (Forestry 4b) One lecture second term
- 14 Forest Geography (Forestry 3) Two lectures through the session

FIRED WORK

The Third Year students are required to spend a week or ten days of the Christmas vacation in lumber camps for the purpose of becoming acquainted with the methods of their management. A report on the results of such inspection visits will be required.

At or near the end of the spring term the Provincial Forest Station at St Williams, Ontario, will be visited for a week by the Third Year students in connection with the course in Silvaculture This work forms an integral part of the course and constitutes a requirement for the degree

Six weeks at the beginning of the Fourth Year will be spent at the Forest School Practice Camp in Algongun Park During this time timber estimating, tree measurements, studies of rate of growth, forest description and forest survey, the maling of working plans, and other practical work work will occupy the students. The students must report at the Camp on Sperimber 30, 1924

The students are required to pay their own expenses at the camp board is furnished at cost. Last year this averaged \$1.50 at any The railway fares will amount to about \$20 from Toronto and return for the camp at the beginning of the Fourth Year. The visit to the logging camps in the Third Year costs about \$50, and the trip to the Provincial Forest Station at St. Williams approximately \$30.

DESCRIPTION OF COURSES

- 1 Elementary Forestry The course is intended to give the student an understanding of the general principles of forestry as a science, an art, a business and a state policy, with applications to Canadian conditions 25 hours. Prof. Howe.
- 2 Descriptive Dendrology A taxonomic study (2a) of the native forest trees, and (2b) of important foreign timber trees and more commonly cultivated speces, laying special stress on the characteristics which lead to the iecognition of the species in the field, with practice work in securing familiarity with morphological and other characteristics for identification 100 hours laboratory and 60 hours field work. Port White
- 3 Forst Geography The geographical distribution, botanical composition and character of forests of the world, and of Canada in particular, with special reference to the ecological factors, climate and soil, influencing forest growth Field practice in recognizing forest types and in making forest descriptions at the practice camps 50 hours Prof Howe
- 4a Wood Identification and Timber Physics Wood structure with a view to identification of the different woods physical and mechanical properties, relation of properties 85 hours Prof White
- 4b Wood Technology Technical properties and uses of Canadian woods and of their competitors, and of the commonly imported tropical woods Statistical study of the lumbering and pulp and paper industries 20 hours.
- 5 Biological Dendrology Life history, laws of growth of trees, their dependence on ecological factors and silvicultural requirements of different species Lectures and laboratory work 150 hours Prof White
- 6 Subsculture (a) Principles and practice of the art of forest production and forest improvement, methods of natural reproduction (b) Artificial regeneration and nursery practice (c) Identification of tree seeds and seedlings 75 hours and practice work Prof White
- 7a Forest Mensuration Methods of ascertaining the contents of logs and trees, scaling, tree form, construction and use of volume tables, timber estimating Lectures, recitations, field and office work. Two hours through the session and one half day of field or office work Chapman's Forest Mensuration is used as a textbook. Prof Dwight
- 7b Forest Mensuration Methods measuring the growth and yield of trees and stands One hour lecture and one laboratory period through the session Chapman's Forest Mensuration is used as a textbook Prof Dwight
- To Forest Mensuration Field practice in forest surveying, topographic mapping and timber estimating on a large scale, location of survey lines and corners, field methods of measuring logs and trees for volume and taper tables, stem analysis and growth measurements. Three weeks in fall practice came in Northern Ontario. Prof Dwight
- Sa Forest Utilization Organization of logging operations, methods of logging employed in various regions of Canada and the United States,

minor woods industries related to lumbering, logging regions of Canada Three hours through the session and ten days field work during Christmas vacation in a logging camp Bryant's Logging is used as a reference Pmf Miller

- 8b Forest Utilization Equipment and operation of lumber manulacturing plants, pulp and paper mills, wood distillation, cooperage and box making, veneers and other important wood-using industries One hour through the session and one half day for trips to typical wood-using plants Prof Millar
- 8e Forest Unitestions Seasoning and grading of lumber, timber preservation, fire proceing, the lumber industry, customs and usages, lumber shipping and inspection, lumber associations, timber appraisal. One four lecture through one session and occasional visits to local lumber yards, dry kinks and timber-treating plants. Prof Millar.
- 9 Silves The life history of the forest, influence of the environmental factors, the laws of invasion and succession, the basis of differentiation of forest types 50 hours Prof Howe
- 10a Forest Protection Methods of guarding against injury to forests by wind, frost, insects, trespass and other miscellaneous injurious agents, protection of forests from fire, organization of forest protection forces, cooperative forest protection in Canada, equipment, construction and use of forest improvements, roads, trails, telephone lines, lookout systems, seinal patrol, fire-fighting. One hour of lectures through the session. Prof. Millor.
- 100 Forst Protection Construction, operation and maintenance of forest telephone lines, use of heliographs, flags, signal interers and wivelens telephones in forest protection, signal codes, relation of system of communication to the organization of protection fores and the detection and suppression of forest fires One week of lectures and field work at practices camp in Northerm Ontaino Prof Millar
- 11 Forest Organization Principles and methods underlying the preparation of working plans for continuous wood and revenue production 35 hours Prof Dwight
- 12 Forest Valuation and Finance Methods of ascertaining money value of forest growths and application of the principles of finance to forest management 25 hours Prof Dwight
- 13 History of Forestry Historical development of the economic and technical features of modern forestry at home and abroad 50 hours Prof Howe
- 14a Forest Administration Fundamental principles of administrative organization, selection and training of a forest personnel, civil service commissions, forest administrative organizations of Canada One hour of lectures for one term Prof. Millar

14b Forest Administration Laws and regulations under which forests are administered and protected by the Dominion Government and the various Provinces of Canada One hour of lectures for one term. Forest Acts and Regulations of the Federal Government and the Provinces are used as texts Prof. Millar.

OPENINGS FOR FORESTERS

To meet the many inquiries of students contemplating the choice of forestry as a profession the following statements may serve

Openings for foresters may be found in four or five directions, namely, government employ, private employ, private enterprise, teaching, and other historiess

The Dominion Forestry Branch, which has charge of the Dominion timber lands in Alberta, Saskatchewan, Manitoba, part of British Columbia, and the unorganized territories, is employing graduates to do the technical work in exploring and classifying lands for forest reservations, surveying, mapping and determining contents of such reservations, organizing a forest fire service, controlling the grazing, timber sales and logging, and generally providing for an administration of forest reservations, of which there are now a dozen, under supervisors These will have to work out the details of a forest management. The Forestry Branch maintains large nurseries from which tree material is distributed for planting in the prairies, a staff of experts attend to the growing and distribution of tree seedlings, and inspect the planting. Other field work with the Dominion Forestry Branch consists in silvicultural investigations Statistical and technological investigations are carried on and results published at the main office in Ottawa and its Forest Products Laboratories at Montreal Nineteen of our graduates are employed by the Dominion Forestry Branch

The Provincial Forestry Branch of Ontario has charge of about 100,000,000 acres of forest lands and these are being gradually organized into districts for administrative purposes. The Branch maintains a Forest Station and large nursery at St. Williams, in Norfolk County, where there are a well large plainations of various ages. The Provincie is inaugurating an extensive reforestation programme for the waste lands in which eventually thousands of acres will be planted and this will require an increasing number of men trained in silvicultural work. At present the Provincial Forestry Branch employs whitey readuates of the School

The Quebec government has for some time organized and developed a forest service, but it provides its own technical men

A number of paper manufacturing companies have for some years availed themselves of the services of foresters, to survey, map and plin operations of their forest properties. Tumber limit holders have employed such force similar purposes, and the time is not far distant when there will be a more general development in this direction. Fourteen graduates are in the employment of unbin and time companies.

Besides the permanent employment for graduates by the Dominion Forestry Branch, the Provincial Forestry Branch, and by private companies, undergraduates find temporary employment during the summer vacation from all three of these organizations, chiefly in surveying, mapping and estimating work. The salaries for graduates are more or less standardized by the Dominion Civil Service. They begin at \$1,329 and pass rapidly to \$1,680, when advancement is slower. The more successful meneral, \$3,000 to \$3,500 in about ten years. With these salaries, from the beginning, go certain allowances for expenses which materially increase their actual value. During the summer months the undergraduates receive from \$70 to \$100 per month, according to experience, exclusive of field expense.

Altogether, however, it needs to be understood that there will always be only a limited demand for high grade professional men, at least for some time to come, and only those with a special love and aptitude for the arduous work which is largely involved should enter the profession.

Besides the directions above outlined as offering employment for foresters, the education of foresters is such as to prepare them for transfering readily into other employment, such as park superintendents, landscape architects, nursery work, horticulture, and lumberman's business in its various obases

FACULTY OF MUSIC

DEGREE OF BACHELOR OF MUSIC

The degree of Bachelor of Music (Mus Bac) will be conferred by the University of Toronto upon students of music, on compliance with the requirements of the curriculum in music which may from time to time be prescribed by the Senate

MATRICULATION

Notice is hereby given that beginning with the Session 1926-1927 complete pass matriculation will be required of the candidates in this Faculty

The subjects for matriculation in Music for the session 1924-1925 will be English and two of Greek, Latin, German, French, Italian or Spanish The courses of study prescribed for matriculation in each of these thanks at the found of the Currently for Music Matriculation.

subjects will be found in the Curriculum for Junior Matriculation, a copy of which may be obtained on application to the Registrar of the University A candidate for the degree of Bachelor of Music must complete his

matriculation prior to admission to the examination of the final year

Special application for Matriculation may be dealt with by the Senate

REGISTRATION

Every student shall, in each year of his course, register his name with the Secretary of the Faculty of Music not later than the first of November

After the first of November registration can be effected only by petition to the Faculty and on payment of a fine of One Dollar a month for each month after October

LINDERGRADUATE COURSE

In addition to Matriculation the candidate must have passed three examinations before the degree of Bachelor of Music shall be granted

FIRST VEAD

- 1 Harmony in three and four parts
- 2 Counterpoint in two and three parts
- 3 The History of Music from 1600 to 1800

SECOND YEAR

- 1 Harmony in not more than four parts
- 2 Strict Counterpoint (including the treatment of the various species in combination) in not more than four parts
- 3 Double Counterpoint at the octave, in two parts
- Canon in two parts
 - 5 Fugue as far as subject and answer
 - 6 The History of Music from 1800 onwards
 - 7 Musical Form as far as the simple forms and analysis of the musical sentence

FINAL YEAR

- A THEORY OF MUSIC
 - 1 Harmony in not more than five parts, including some original work,
 - 2 Counterpoint, strict and free, in not more than five parts
 - 3 Canon in two and three parts
 - 4 Double Counterpoint at the octave, 10th, 12th and 15th
 - 5 Imitation and Fugue up to four parts
 - 6 A general survey of the History of Music from the earliest times to the present (Text-books recommended, Bonavia Hunt's History of Music and Lavignac's Music and Musicians, but see also list on page 10)
 - 7 Elements of Acoustics
 - 8 Musical Form in general
 - 9 Orchestration
 - 10 Viva voce —Analyss of full score, from standpoints of orchestration and form, of one of the following Beethoven's Symphony, No 8, Dvorak's String Quartette in A flat, op 105 (These works are available in the convenient form of the Eulenburg Miniature Scores)

- 11 There will also be required an original composition, either sacred or secular, containing at least four movements and sufficiently long to occupy from fifteen to twenty minutes in performance. This must be
 - (a) A chorus in five parts, with a short instrumental introduction
 - (b) A recitative and solo
 - (c) A quartette or quintette for voices only
 - (d) A four part vocal fugue

Numbers (a), (b) and (d) must have accompaniments for string orchestra only

This composition must be sent to the Secretary of the Faculty not later than April 1st accompanied by a declaration that it is the candidate's own unaided work

Candidates for the degree may defer presenting this composition until a subsequent annual examination, in which case the fee for examination shall be \$10

R PRACTICAL MINER

Candidates shall be required to play-on the piano or some orchestral instrument-or sing --

Two or three compositions (or portions of them), selected by the examiner They shall also be required to play, at the keyboard, the following tests, etc. —

- 1 Transposition
- 2 Extemporization upon a given theme
- 3 Modulation

Equivalent tests will be imposed for singers, or players upon orchestral instruments

In the case of those candidates who have obtained Licentiate standing in the University of Toronto or in the Toronto Conservatory of Music requirements (11) and (B) will not be exacted but there will be required instead a short original composition in one of the following forms

- (a) A Solo Song with Pianoforte Accompaniment
- (b) A Four-part Vocal Composition
- (c) An Instrumental Composition (other than a Dance) for the Pianoforte or Organ, or for any Stringed or Wind Instrument with Pianoforte or Organ Accompaniment

The Scnate may admit ad enudem slatum undergraduates of other Universities after due inquiry as to the requirements demanded by the institutions in which the candidates obtained their standing

EXAMINATIONS

| The examinations will take place at times to be fixed | by the Senate |
|--|-------------------|
| Applications accompanied by the proper fee must | be transmitted to |
| the Secretary of the Faculty before the first of April | (Cheques should |
| be made payable to the University of Toronto) | |

The total number of marks necessary to pass on any subject is 60, second class honours, 70, first class honours, 80, maximum, 100

FRES

| Matriculation | | \$10 | 0 |
|--|-------------|------|---|
| Registration and Lecture Fees (Annual) | \$5 00 each | 10 | 0 |
| Each examination subsequent to matriculation | n. | 10 | 0 |
| For admission ad eundem statum | | 10 | 0 |
| Degree of Mus Bac | | 20 | 0 |
| Lecture Fee for Occasional Students, \$20 | 0 for each | | |
| cultiact comming all cultiacte faa | | 5 | n |

SUGGESTED LIST OF TRAT-BOOKS

Rudsments and Harmony

Musical Rudiments—Leo Smith (Boston Music Co)
Rudiments of Music and Elements of Harmony—Albert Ham (Novello)
Elements of Harmony, Books 1, 11 and 111—Kitson (O'dford University

Press)
Harmony—Prout (Augener)

The Evolution of Harmony—Kitson (Oxford University Press)
Harmony, Parts 1, 11 and 111—Anger (Boston Music Co.)

Counter-point

Primer of Counterpoint—Bridge (Novello) Students' Counterpoint—Pearce (Winthrop Rogers) Counterpoint—Prout (Augener) The Art of Counterpoint—Kitson (Oxford University Press)

Modern Academic Counterpoint—Pearce (Winthrop Rogers)

Double Counterpoint, Canon and Fugue
Primer of Fugue—Higgs (Novello)
Fugue—Frout (Augener)
Fugal Analysis—Prout (Augener)
Studies in Fugue—Kitson (Ovford University Press)
Double Counterpoint and Canon—Frout (Augener)
Double Counterpoint and Canon—Bridee (Novello)

Form and Composition

Form in Composition-Anger (Boston Music Co)

Musical Form-Prout (Augener)

Composition-Stainer (Novello) * Musical Composition-Stanford (The Macmillan Co.)

Composition—Corder (Curven)

Analysis of Form-Harding (Novello)

Analysis of Bach's 48 Preludes and Fugues-Iliffe (Novello).

Hastory

History of Music-Bonavia Hunt (Bell & Sons)

History of Music-Naumann (Cassell & Co)

History of Music-Rockstro (Robert Cocks) Summary of Musical History-Parry (Novello)

Evolution of the Art of Music-Parry (Keegan Paul)

The Growth of Music, Books 1, 11 and 111-H C Colles (Oxford University Press)

Music and Musicians-Lavignac (Henry Holt) Modern Musicians-Hadden (T M Foulis)

Articles in Grove's Dictionary

Orchestration

Primer of Instrumentation-Prout (Novello) On Scoring for an Orchestra-Vincent (Vincent).

Instrumentation-Berlioz (Carl Fischer) Choral Orchestration-Cecil Forsyth (H W Gray Co)

Acnusters

Acoustics for Musicians-P C Buck (Oxford University Press) Scientific Basis of Music-Stone (Novello)

Sound and Music-Sedley Taylor (The Macmillan Co) Science of Music-Sedley Taylor (The Macmillan Co)

Sound-Tyndall (D Appleton & Co)

Candidates are not restricted to the above list, which is only suggested The paper work is judged irrespective of any particular author or school

DEGREE OF DOCTOR OF MUSIC

Candidates for the degree of Doctor of Music must be Bachelors of Music f this or another university of at least three, years' standing Every andidate shall register his name with the Secretary of the Faculty not atter than the first of November

Candidates must present a musical exercise by the first day of April for ubmission to the examiners in Music, the approval of which is a necessary reliminary to further examination

The exercise must be of the nature of a Cantata, sacred or secular, scored or full orchestra, and requiring from 40 to 60 minutes for its performance. The cantata must include an overture and parts for one or more solo voices, a addition to charges.

If the exercise be approved the candidate must undergo an examination of a more advanced character than is involved in the Mus Bac examination in Harmony, Counterpoint, Fugue, Musical Form, Orchestration, and Juscial History

The fee for the examination is fifty dollars, divided as follows Reading xercise, twenty-five dollars, practical and theoretical examinations, wenty-five dollars

The fee for the degree is thirty dollars

The examinations will take place at times to be fixed by the Senate

Applications accompanied by the proper fee must be transmitted to he Secretary of the Faculty before the first of April (Cheques should we made navable to the University of Toronto.)



SCHOOL OF GRADUATE STUDIES

GENERAL REGULATIONS

ADMISSION

- Advanced courses of instruction and facilities for research are offered to students who are graduates of any University or College of recognized standing.
- 2 Admission to these advanced courses, or to the privileges of research, does not in itself imply admission to candidacy for a higher Degree

REGISTRATION

3 Application for registration as a graduate student must be made to the Secretary of the School of Graduate Studies not later than the 5th of October in any year, and the application must be accompanied by statements of the applicant's degrees, of the courses bursued as an undergraduate and his standing therein, and of the courses he wheles to pursue.

DEGREES

4 The Degrees which the University of Toronto offers to graduate students are those of Doctor of Philosophy, Master of Ata, Doctor of Medicine and Master of Surgery, Master of Applied Science, Master of Architecture, Civil Engineer, Mining Engineer, Mechanical Engineer, Electrical Engineer, Chemical Engineer, Doctor of Pedagogy and Forest Engineer

REGULATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

- 5 A candidate for the Degree of Doctor of Philosophy must have been regularly registered as a graduate student in this University in accordance with the provisions of Section 3 Registration must be repeated at the beginning of each year of the course
- 6 The candulate shall, as a registered graduate student, have pursued in this University for at least three yams, under the direction of some department, an advanced course of study, which must be approved by the committee administering the regulations governing the degree of Doctor of Philosophy Exemption from one of the three years required may be granted by the committee, on the report of the department concept, to a candidate who has furnished satisfactory evidence of having pursued, to a candidate who has furnished satisfactory evidence of having pursued for at least one year a course of advanced study in his manor subject.

at another University, or who, at graduation as Bachelor of Arts in this University, has obtained First Class Honours in a special course, covering one year of advanced study, approved by the committee

- It must be clearly understood, however, that the Degree is granted only to such students as give evidence of general proficiency, power of investigation and high attainments in the special field in which the major work is done
- 7 A statement of the course of study proposed must be sent to the Secretary of the School of Graduate Studies not later than the 1st of November of the first year of registration and must be accompanied by the approval of the departments concerned
- 8 The course shall include the study of a special subject, termed the major subject, and of two other subjects, remed the minor subjects. Only one minor subject shall be selected from the group of subjects of the department which includes the major subject. The time devoted to the two minor subjects should not exceed two-thirds of that required for the major subject is subject.
- The candidate must have an adequate knowledge of French and German For special reasons the substitution of another foreign language for one of these will be permitted
 In some departments a knowledge of
- 10 At a time to be determined by the committee administering the regulations governing the degree of Doctor of Philosophy on the advice of the department or departments concerned, the candidate shall undergo written and orial examinations both on his major subjects and on his minor subjects, conducted by the departments in which the major and minor subjects are oncluded. The examiners may dispense with written examinations in one or both minor subjects provided they are satisfied, from the candidate's record, that he has a competent knowledge of such subjects or subjects. Such dispensation must be reported to the Council of the School of Graduate Studies
- 11 The candidate shall present, either during his course of study or at the completion of it, a thesis embodying the results of an original investigation, conducted by himself, on some approved topic selected from his major subject
- 12 The acceptance of the thesis shall be determined by the commuttee administering the regulations governing the degree of Doctor of Philosophy on the report of the department which includes the major subject. This report shall state, in terms to be approved by the Council, whether the thesis complies with the conditions prescribed by this University, and, in the judgment of the department, is worthy of publication, and whether the department recommends that the thesis be accepted in conformity with the recurrements for the Decree of Doctor of Philosophy.

- 13 On the acceptance by the committee administering the regulations operaining the degree of Dactor of Philosophy of the thesis submitted by a candidate, and of favourable reports from the departments in which his major and minor subjects have been taken, he shall be deemed to have fulfilled the requirements for the Degree in so far as his knowledge of those subjects is concerned. The candidate shall then be required to undergo an oral examination before the Council of the School of Graduate Studies in order to establish his general fitness for the Degree.
- 14 Before the Degree is conferred upon a candidate he must, subject to the approval of the commutate administering the regulations governing the degree of Doctor of Philosophy, make such arrangements as will ensure the publication of the thesis, and the presentation within a specified time of such number of copies as the commutee may direct. Each printed copy shall, on its tilt page, contain the words "A thesis submitted in conformity with the requirements for the Degree of Doctor of Philosophy in the University of Tomoto".
- 15 On the report of the Council of the School of Graduate Studies that all the requirements have been complied with, the Senate may, either at a Convocation or at anyone of its regular meetings, confer on the candidate the Decree of Doctor of Philosophy

REGULATIONS FOR THE DEGREE OF MASTER OF ARTS

- 18 A candidate for the Degree of Master of Arts must have been regularly registered as a graduate student in this University in accordance with the provisions of Section 3 Should the course of study extend over more than one year registration must be repeated at the beginning of each year
- 17 If not registered as a graduate student at the beginning of the academic year, as provided in the regulations given above, the candidate shall not be eligible for the degree in the following June
- 18 A statement of the course of study or the subject of the thesis proposed, must be sent to the Secretary of the School of Graduate Studies not later than the 1st of November, and must be accompanied by the approval of the department or departments concerned
- 19 Attendance during at least one session is obligatory on candidates for the Master's Degree, but dispensation from such attendance may be granted to graduates of the University of Toronto if the department or departments concerned, from direct knowledge of the candidate's attainments, recommend such dispensation on sexual grounds.
- 20 A candidate will proceed to the Degree see ander one or the other of the following sets of regulations candidate. Aftain an Honorite Course or a Bachelor of Arts in the Honorite Course or a Bachelor of Arts in the Pass Course. If accepted as a Honorite Course or a Bachelor of Arts in the Pass Course. If accepted as a candidate, a graduate of another University or a graduate of an application of the Arts in the Desire Course II are the Arts in the Course II are the Cours

I BACHELOR OF ARTS IN AN HONOUR COURSE.

Candidates may qualify for the Degree

- (a) By the pursuit for at least one year of an approved course of study and the passing of a satisfactory examination therein A course of study shall not be approved unless (1) it is a continuation of a course previously pursued for graduation, or (2) it has been recommended by the department concerned on account of other special qualifications possessed by the candidate. In this latter case the course will normally extend over at least two years.
- (b) By presenting a thesis embodying the results of some special study or investigation and adjudged to be of sufficient ment. The thesis shall be accepted only on the approval of the department or departments concerned the candidate shall be required to pass an examination, written or oral, or both written and oral, conducted by the department or departments concerned, on the subject of the thesis and on his general knowledge of the subject of the departments and on his general knowledge of the subject of the department or departments. This examination shall not be deleted that the subject of the department of the partment of the partment of the partment of the subject of the department or departments. This examination shall not be Secretary of the School of Graduate Studies at least to a weeks before the examination takes place. If the candidate is to be eligible for the degree in June the thesis must be presented in a liter than the lat of May.

II BACHELOR OF ARTS IN THE PASS COURSE

Candidates may qualify for the Degree

- (a) By the pursuit for at least two years, under the direction of one department, of an approved course of study and the passing of a satisfactory examination therein. No course of study shall be approved unless it is based on courses which have been taken for at least three years in the undergraduate course.
- (b) Under exceptional circumstances only, a Bachelor of Arts in the Pass Course may be permitted to proceed to the degree of Master of Arts by thesis, in accordance with the regulations in clause 20, I (b) Candidates must be of at least two years' standing as Bachelor of Arts

Graduates in Arts of this University, who have fulfilled all the requirements for the Degree of Doctor of Philosophy may, on payment of the fee for the Degree of Master of Arts, be admitted to that Degree without further examination. Graduates in Arts of another University, or graduates in other Faculties of this or another University, who have fulfilled all the requirements for the Degree of Doctor of Philosophy may, on special recommendation to that effect by the departments concerned, also be admitted to the Master's Degree without further examination, on payment of the fee for that Degree.

REGULATIONS FOR THE DEGREE OF DOCTOR OF MEDICINE AND MASTER OF SURGERY

The Degrees which the University of Toronto offers to graduate students in Medicine, are those of Doctor of Medicine (MD) and Master of Surgery (ChM)

Before a candidate will be eligible to register for these degrees he must have fulfilled the following entrance requirements

(1) Graduated in Medicine from a recognized University

(2) Spent one year in a Hospital as an Interne on a rotating service or its equivalent (Two years general practice may be accepted as the equivalent of this)

Length of Course

The course will be normally of three years' duration of twelve months each

Three years or more in general practice may be accepted as equivalent to one of the climical years of the course. One full year's special work in one of the required laboratory subjects of the course may be accepted as equivalent to the laboratory year of the course. A graduate having the BSc (Med) will be considered as having fulfilled this requirement. In very exceptional cases both of the above alternatives may be allowed

The Course will consist of

First Year (Clinical)

One year's instruction in Medicine or Surgery

This may be taken while the student is acting as a Hospital Interne in the selected clinical subject (This is in addition to the internship on a rotating service)

At the end of the first year the candidate must present a certificate to the School of Graduate Studies from the Physician or Surgeon in charge of the service in which the candidate has worked, stating the nature and details of the work done, and the degree of efficiency with which it has been carried on.

Second Year (Laboratory)

One year's instruction in a laboratory subject

The student will devote the major part of his time for this year to work in one of the following laboratory departments and the minor part to work in any other two of these departments

- (a) Anatomy (b) Physiology
- (c) Biochemistry
- (c) Biochemistry (d) Pathological Chemistry
- (e) Pathology (f) Bacteriology and Immunology
- (e) Pharmacology a
- (h) Physics

At the end of the second year proceeding to the degree of M D, the candidate must pass a written and oral examination in the major and two minor subjects he has elected to take

At the end of the second year proceeding to the degree of Ch M, the candidate must pass a written and oral examination in the following subjects

- (a) Pathology, including Bacteriology
- (b) Anatomy
- (c) Principles of Physiology

A candidate failing in either the written or oral examination in his major subject must repeat the year before being considered eligible for re-examination. A candidate failing in not more than one of his minor subjects may apply for a Supplemental in that subject in which he has failed.

Third Year (Chnical)

One year's instruction in Medicine or Surgery

One of the clinical years in the course for the Surgical Degree may be spent in the Department of Obstetrics and Gynaecology

This clinical year may be taken while holding a hospital appointment in the selected clinical department

At the end of the third year proceeding to the degree of M D or Ch M, the candidate must present a certificate to the School of Graduate Studies from the Physician or Surgeon in charge of the service on which he has worked, stating the nature and details of the work done and the degree of efficiency with which it has been curred or

The third year of the course must be taken at the University of Toronto in all cases

Candidates in Medicine or Surgery, besides being familiar with the general field of the subject, must be able to make

- (a) A satisfactory examination of the Eye, Ear, Nose and Throat
- (b) A satisfactory pelvic examination
- (c) A satisfactory routine laboratory examination

Candidates must present a satisfactory thesis and pass an examination in the subjects of instruction at the end of the course. Candidates proceeding to the Ch M must pass an examination in General Surgery.

REGULATIONS FOR DEGREES OF.

MASTER OF APPLIED SCIENCE, MASTER OF ARCHITECTURE, CIVIL ENGINEER, MINING ENGINEER, MECHANICAL ENGINEER, ELECTRICAL ENGINEER. CHEMICAL ENGINEER

A The regulations governing the Degrees of Master of Applied Science and Master of Architecture for the session 1924-25 shall be determined as follows

- 1.a A candidate for the degree of Master of Applied Science shall hold the degree of Bachelor of Applied Science of this University or a degree from some other University recognized as equivalent by the Council of the School of Cardinate Studies.
- 16 A candidate for the degree of Master of Architecture shall hold the degree of Bachelor of Architecture or the degree of Bachelor of Applied Science in Architecture of this University or a degree form some other University recognized as equivalent by the Council of the School of Cardinate States.
- 2 He shall register with the Secretary of the School of Graduate Studies at the beginning of the academic year
- 3 Not later than November 1, 1924, he shall submit to the Secretary for acceptance by the Council of the School of Graduate Studies the title of his proposed thesis as approved by the department concerned
- 4 Not later than April 30th, 1925, he shall present evidence to the Council of the School of Graduate Studies that he has spent not less than one academic year of the department concerned as a student enrolled in one of the following departments on a course of study approved by the department Court Engineering, Mining Engineering, Mechanical Engineering, Architecture, Chemical Engineering, Electrical Engineering, Metalliurical Engineering, Metall
- 5 Not later than April 30, 1925, evidence that the candidate has assistanced me all the requirements of the department with regard to thesis and to such evariantions as the department shall require, shall be forwarded to the Council of the School of Graduate Studies through the sub-committee administering the regulations governing the degrees of Master of Alphied Science and Master of Architecture.
- B The regulations governing the Professional Degrees of Civil Engineer (C.E.), Mining Engineer (M.E.), Mechanical Engineer (M.E.), Electrical Engineer (E.E.), Chemical Engineer (Chem.E.), for the Session 1924-25 shall be determined as follows
- 1 A candidate for one of the said degrees shall hold the diploma of the School of Practical Science or of the Faculty of Applied Science and Engineering or the degree of Bachelor of Applied Science
- 2 He shall have spent at least three years after receiving the diploma or the degree in the actual practice of the branch of engineering wherein he is a candidate for a degree
- 3 Intervals of non-employment in other branches of engineering shall not be included in the above three years. It shall not be necessary that the several periods requisite to make up the said three years be consecutive.
- 4 Satisfactory evidence shall be submitted to the University Examiners as to the nature and length of the candidate's professional experience for the purpose of clauses 2 and 3

The examiners may satisfy themselves by oral or written examinations in regard to the candidate's experience and competence

- 5 The candidate shall prepare an original thesis on some engineering subject in the branch in which he wishes a degree, the said thesis to be accompanied by all necessary descriptions, details, drawings, bills of quantities, specifications and estimates
- The candidates may be required at the option of the examiners to undergo an examination in the subject of this thesis
- 6 Notice in writing shall be sent to the Secretary not later than the first day of November, informing him of the degree to which the candidate wishes to proceed and of the title of his proposed thesis for the approval of the Evaniners
- 7 The evidence under clause 4, and the thesis, with accompanying papers, described in clause 5, shall be sent to the Secretary not later than the first day of April
- 8 The candidate shall be required to present himself for examination in the month of April at such time as may be arranged by the Examiners
- 9 The thesis, drawings, and other papers submitted under clause 7 shall become the property of the University
- 10 Nothing in this statute shall prevent any candidate from receiving more than one of the said degrees, provided he has the necessary qualifications for each degree. An interval of three years must elapse between the granting of any two degrees under this statute.

REGULATIONS FOR THE DEGREE OF DOCTOR OF PEDAGOGY

The degree of Doctor of Pedagogy (D Paed) will be awarded under the following conditions

- 1 The candidate shall hold an approved degree in Arts or Science or in the applied sciences of Agriculture, Engineering, or Commerce
- 2 The candidate shall be in attendance at the Ontario College of Education during three regular College Sessions or four Summer Sessions A High School Assistant's, First Class, or Second Class certificate valid in Ontario, or a regular Course in an approved training school for teachers will be accepted in lieu of the attendance during one of these regular Sessions or one of the Summer Sessions.
- 3 The Course shall consist of the four subjects and a thesis as defined in Sections 4 and 5. The subjects may be taken in any order, provided that not more than two be taken in any regular Session and not more than one in any Summer Session. Candidates who, under Section 2, are exempted from attendance during one regular Session or no Summer Session will be evempted also from the instruction and evamination in one of the four subjects.

- 4 The candidate, after passing the prescribed examinations, shall also submit on or before March lat a thesis on some educational topic selected with the approval of the Ontario College of Education. In valuing this thesis literary excellence, as well as the discussion of the subject, will be taken into account. After the examiners have reported in favour of the candidate's examinations and thesis, and before the degree of D Paed is conferred, the candidate shall furnish the Secretary of the School of Graduate Studies with iventive consect of the thesis.
 - 5 Subjects of Instruction and Examination
- (a) The Science of Education, including a study of the philosophical, ethical, and sociological bases of education (Two papers)
 - (b) Educational Psychology (Two papers)
- (c) The History of Education in Western Europe and North America in modern times, with special reference to Ontario, Great Britain, and the United States (Two papers)
- (d) Educational Administration in Great Britain, the United States, France, and Germany, with special reference to the administration and organization of education in Ontario (Two papers)

REGULATIONS FOR THE DEGREE OF FOREST ENGINEER

The Faculty of Forestry grants the degree of Forest Engineer (F E) to the graduates holding the degree of B Sc F, who, after three years' employment in forestry work, present an acceptable thesis, the details to be arranged and the subject to be previously approved by the Faculty

FEES

| 25 | 00 |
|----|----------|
| 45 | 00 |
| 25 | 00 |
| 25 | 00 |
| | 45 25 |

If the course is extended over more than three years a registration fee of \$5 00 only for each additional year is required

Master of Arts -

Doctor of Phylogophy -

| Registration and tuition | first year | \$25 | 00 |
|--------------------------|------------|------|----|
| Each subsequent year | | 5 | 00 |
| Evamination | | 10 | 00 |
| Degree | | 10 | 00 |

Candidates for the Degree of Master of Arts shall pay \$25 00 for registration and tuition for one year of the course If the course is extended over more than one year a registration fee of \$5 00 only must be paid for each additional year

Graduate Students not proceeding to a degree-

| For a course in any one subject, including registration | For the Session \$10 00 | For the Term \$5 00 |
|---|-------------------------------|---------------------------|
| For a course in more than one subject, each subj | ect | |
| including registration | 9 00 | 5 00 |
| Maximum Fee | 45 00 | 23 00 |

If any or all of the courses taken by a Graduate student are later accepted by the Council of the School of Graduate Students as part of the student's course of instruction for the Degree of Master of Arts or Doctor of Philosophy, an additional fee shall be charged, if accessary, to bring the total fees paid for registration and tuttion up to the amount paid by a candidate resistent for the Degree of Master of Arts or Doctor of Philosophy

The fee for registration shall be paid by the candidate immediately upon being notified of admission to the course

If the candidate is required to repeat either examination an additional fee of \$10.00 will be charged

Doctor of Medicine -

Master of Surgery -

Instructional fee for all students enrolled for this Degree
who are not holding University or Hospital
appointments in this University per annum \$150 00

 Examination
 10 00

 Degree
 10 00

 Master of Applied Science
 —

 Examination and Degree
 \$25 00

Master of Architecture —

Examination and Degree \$25 00

Professional Degrees --

Civil Engineer

Mining Engineer

Mechanical Engineer

Mechanical Engineer Electrical Engineer

Chemical Engineer

Examination and Degree

\$20.00

| UNIVERSITY | OR | TORONTO |
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| Doctor of Pedagogy — | | | |
|--|--------------|------|----|
| Registration | | \$5 | 00 |
| Tuition, examination, library | | 10 | 00 |
| Summer Session | | 10 | 00 |
| Examination | each subject | 3 | 00 |
| Degree | | 25 | 00 |
| Forest Engineer — | | | |
| Examination and Degree | | \$20 | 00 |
| Graduate Students' Union Annual Fee | | ٠. | 00 |
| | | | |

\$1 00

FELLOWSHIPS

The University offers annually to qualified students intending to pursue advanced graduate study a number of fellowships, each annualing to \$500, the holders of which will, for the year of their tenure, be entitled to free tutulo. Some are confined to special Departments, but those specified in paragraph (1) below are open to students in all Departments, who are proceeding to the degrees of MA and Ph D. Others are called Tutorial Fellowships because the holders of them are required to give a certain amount of instruction in the class-room or laboratory in elementary subjects, but the time so devoted is small and, accordingly, the holders are given opportunity to pursue their special advanced ourses of study

These Fellowships are as follows

1 SPECIAL OPEN FRILOWSHIPS

By the generosity of the Canadian Paulic Railway, the Imperial Oil Company, Colonel R W Leonard, Sir Edward Osler and Sir Edward Kemp, there are seven Pillowships available to attudent who undertake to pursue graduate work in any of the courses offered by the Departments of this University for the degrees of MA and Fa D under the authority of the School of Graduate Studies. The value of each Pillowship is \$500 or one year with free tution. If the holder of a Pillowship press satisfactory evidence of progress in his work during the year he may recove the enemal oil to for a second year. Preference will be given to candidates who are graduates of the Universities of Canada outside Ontario Applications, together with details of undergraduate courses taken and certificates therefor, should be addressed to the Dean of the School of Graduate Studies not later than the lat of June

2 SPECIAL DEPARTMENTAL FELLOWSHIPS

(a) Alexander Mackenze Research Fellowships, two in number, of \$500 each, for research in the Departments of Political Science and History, awarded to graduates of any university, on the recommendation of the committee Applications for these Fellowships should be addressed to the Head of the Department not later than the last of June.

(b) James H Richardson Fellowship, of \$500, awarded in Anatomy by the Senate on the recommendation of the Professors of Anatomy, Biology and Surgery Applications for this Fellowship should be addressed to the Professor of Anatomy

- (c) The Gorge Brown Memorial Fellowship, of \$800, awarded in alternate years to the graduate in Medicine of the University of Toronto, who has distinguished himself most in the subjects of Anatomy, Physiology, Biochemistry, Pharmacology, Pathology and Pathological Chemistry, in the undergraduate course. The holder of the Fellowship is expected to devote himself to research in one of the laboratories of the University on some subject bearing on the advancement of medical science.
 - (d) The Ellen Mickle Fellowship, being the annual income from an

endowment of twaitty-five thousand dollars (\$25,000) has been established by the late Dr W J Michle, to be given to the student for students) who in the extimatations at the end of the fourth year of the Old Course or the fifth year of the New Course in Medicine, shall have taken honours of the first class in at least three-fourths of the subjects of that year, and shall have obtained the highest marks in the examinations. The award will be made to the above referred to student (or students) provided he proceed to the degree of Bachelor of Medicine in this University and spend one year in post graduate study approved by the Council of the Faculty of Medicine.

8 MEDICAL RESEARCH FELLOWSHIPS

These were established in 1913 through the generosity of a number of the leading cutzens of Toronto, for the promotion of Clinical and Laboratory Research in the Department of Medicine Each is tenable for three years, providing that the progress in research made by the holder is satisfactory. The value of the Fellowships for the first year is \$750, and in the senior years may be as much as \$1,000 and \$1,500 Applications for these Fellowships should be addressed to the Secretary of the Medical Research Fellowship Seministic Secretary of the Medical Research Fellowship Committee.

4 EDUCATION FELLOWSHIPS

Four fellowships of not less than \$500 each are offered annually to teachers who undertake to pursue graduate work in Education leading to the degree of D Paed or Ph D On the recommendation of the instructors concerned these fellowships may be renewed for a second year Applications for these fellowships should be addressed to the Dean of the Ontario College of Education not later than June 1st of each year

5 TUTORIAL FELLOWSHIPS

There are eight of these Fellowships, the holders of which are required to give part of their time to elementary instruction in the class-room or laboratory, and are also to engage in advanced study and research

These Pellowships are annually awarded in the following Departments three in Mathematics, three in Physiology and Biochemistry, four in Pathology, and two in Botany

These Fellowships are open to graduates of any University and the appointments to them are made, on the recommendation of the staffs in the respective Departments, by the Board of Governors

DEMONSTRATORSHIPS, ASSISTANT DEMONSTRATORSHIPS, AND ASSISTANTSHIPS

Certain of the Departments of Science offer annually to qualified graduates of any University positions as Demonstrators, Assistant Demonstrators, or Assistants, which involve instruction to elementary laboratory

classes, but only a certain number of hours per week in each ease is required, and the instructors are accordingly free to pursue advanced study and research with the object of qualifying for the degrees of M A and Ph D

The number of these posts varies from year to year, but for the session 1923-1924 they were, according to Departments, as follows

Physics, nine Assistant Demonstratorships, Chemistry, thirteen Assistantiships, Botany, six Assistantships, Pathological Chemistry, six Assistantships, Biochemistry, one Demonstrator, four Fellows, Physiology, two Demonstrators, eight Fellows

Applications for these positions should be addressed to the Head of the Department in each case The honorarium is \$500 or more

GRADUATE STUDENTS' UNION

All students registered in the School of Graduate Studes are thereby members of the Graduate Students' Union, and all resident students must pay the annual fee of \$1 00 for the support of the activities of the Union

ANNOUNCEMENT OF COURSES OF GRADUATE STUDY OFFERED BY THE DEPARTMENTS OF THE FACULTY OF ARTS

In the following announcement of courses certain Minors are suggested as suitable to accompany each of the major subjects. In many cases students are advised to take the Minors indicated, but it is always to be understood that other Minors may be arranged by consultation between the student and the staffs involved.

CLASSICS

The departments included under the Classics are four in number-Greek, Latin, Greek and Roman History, Comparative Philology and Sanskrit

DEGREE OF MASTER OF ARTS

Before being accepted as a candidate for the degree of Master of Arts an applicant must have done the equivalent of the Third Year Honour work in both Greek and Latin, and the equivalent of the Fourth Year Honour work in either Greek or Latin

After the above requirements have been met, a candidate may be registered for M A work in the language in which the Fourth Year work has been done

Students who, under the direction of the Classical staff, are taking courses to enable them to meet the above requirements may be registered as graduate students not proceeding to a degree

DEGREE OF DOCTOR OF PHILOSOPHY

A graduate student, proceeding to the degree of Doctor of Philosophy, may select any one of the following divisions as his Major

Greek Literature Latin Literature

Greek and Roman History Greek and Roman Philosophy

Comparative Philology and Sanskrit

All candidates for the degree of Doctor of Philosophy whose major subject lies within the Classics shall give evidence of proficiency in Greek and Latin Prose Composition, or (with the consent of the staff in Classics) in one or other of them, and to this end shall take such courses as the staff may prescribe

A graduate student will be required, before entering upon more advanced courses, to have taken such of the courses marked below by an asterisk as the staff in Classics may recommend, having regard to the range of work already completed and to the nature of the course of study he expects subsequently to pursue

No absolute rule is laid down as to the selection of the Minors to be chosen by a candidate whose Major is no no of the classical departments, but one of them at least should be chosen from the remaining subjects an these departments, and the other, if chosen from some different departments should have a definite relation to the candidate's major subjects where both minor subjects are chosen from the departments included inder the Classics, one half of the courses constituting the two minor subjects should consist of courses not marked to an astrong.

Courses of Instruction

I GREEK.

^{*1-}Greek Prose Composition *2-Plato, Republic, Bks I-IV

*3-Plato, Republic, Bks V-X

*4-Greek Drama (Aeschylus, Agamemnon, Sophocles, Ajax, Oedipus Rex, Europides, Iphigenia in Tauris, Aristophanes, Birds, Clouds)

*5-Aristotle, Ethics, Bks I-IV, X (6-9) *6-Aristotle, Poetics

*7-History of Greek Philosophy (Introductory Course)

8-Plato, Phaedrus, Phaedo, Gorgias Professor Hutton 9-Plato, Laws Professor Hutton Professor Owen 1924-25 10-Aeschylus

11-Sophocles and Euripides Professor Macnaughton

12-Aristotle, Ethics, Bks V, VI, VII Professor Brett 1924-25

13-The Educational Theories of Plato Professor Robertson 1925-26 14-The Political and Ethical Thought of Plato

Professor Robertson 1924-25 15-The Influence of Greek Thought upon the New Testament

Professor Macnaughton

16-History of Greek Philosophy from Plato to Plotinus Professor Brett 1924-25

17-The Relation between the Metaphysics of St Augustine and Plato Professor Carr

18-Graeco-Roman Literary Criticism with special study of Longinus Professor Dale

19-The Greek Conception of the Function of Art in the State Professor Milner

20-Greek Archaeology Professor Kirkwood 1925-26 See also Greek and Roman History, 1, 2, 4, 9, 101

II LATIN

*1-Latin Prose Composition

*2-Iuvenal and Martial (selections)

*3-Virgil, Georgics I, IV, Aeneid

*4-Horace

5-The Minor Poems of Virgil Professor DeWitt 1924-25 6-Carollus, Tibullus, Propertius, Oxid Professor Machanehton

7-Roman Public Life, with the study of selected speeches of Cicero Professor Smith 1925-26

8-Roman Literary Criticism with special reference to Cicero's rhetorical writings Professor DeWitt 1924-25 9-Roman Stoicism, with special study of Cicero, De Finibus, Bks III.

IV Professor Robertson 1925-26

10-Cicero, Academica, and the Eclectic Philosophy Professor Robertson 1924-25

Professor Kirkwood 1924-25 11-Roman Archaeology Professor De\\ tt 1924-25 12-Latin Epigraphy Professor DeWitt 1924-25 13-Roman Religion

[See also Greek and Roman History, 5, 6, 15, 16, and Greek 18]

III GREEK AND ROMAN HISTORY

*1-Thucydides, Bks I-III, VI, VII

*2-Herodotus, Bks VII, VIII, IX

*3-Greek History, B C 454 to B C 399

*4-Aristotle, Politics, Bks I, II, III

*5-Tacitus, Annals, Bks I-VI, and the Principate

*6-Cicero, Letters (Watson), Sallust, Catiline, Caesar, Civil War

*7-Roman History (to death of Cicero)

*8-Roman Institutions 9-Herodotus

10—Aristotle, Politics

11-The History of the Pentecontaëty

12-The Letters of Cicero

13-The Geography of the Mediterranean World Professor Cochrane 1924-25

14-The Second Punic War with a special study of Livy's Third Decade Professor Kirkwood 1925-28

15-Interpretation of Greek and Roman History to 476 A D

16-Greek and Latin

Professor Cochrane 1924-25

Professor Sissons 1924-25 Professor Milner

Professor Sissons 1924-25

Professor Milner

Professor Milner

Historical Literature 17-The Roman Occupation of Britain

Professor Smith 1924-25 [See also Latin 7]

IV COMPARATIVE PHILOLOGY AND SANSKRIT

*1-Comparative Philology

2-Introduction to the study of Sanskrit Professor DeWitt 1925-26 3-Introduction to Oscan and Umbrian Professor DeWitt 1924-25

The following are the minor subjects offered in the Classics *

A-Greek Literature Greek, 2, 4, 6

B-Latin Literature Latin, 2, 3, 4

C-Greek History Greek and Roman History, 1, 2, 3, 4 D-Roman History Greek and Roman History, 5, 6, 7, 8

E-Greek Philosophy Greek, 2, 3, 5, 7

F-Comparative Philology and Sanskrit, 1, 2, 3

G-Greek and Roman Archaeology Greek, 20. Latin. 11, 12, 13

SEMITIC LANGUAGES DEGREE OF MASTER OF ARTS

Candidates for this degree are accepted under the general regulations. DEGREE OF DOCTOR OF PHILOSOPHY

A candidate proceeding to the degree of Doctor of Philosophy in the department of Semitic Languages must give proof of his fitness for ad-

*For the courses constituting these minor subjects, equivalent courses may be substituted with the approval of the staff in Classics

vanced study in this department either as being an honour graduate of the University of Toronto or as possessing an equivalent standing in some field of Semitic Philology in a recognized University or College

A course of study must be elected by the candidate in consultation with the members of the department under whom it is proposed to pursue the major and minor subjects and must be submitted to and approved by the department

The department will not recommend a student for the degree merely on the ground of faithful study for a definite period but only because of high attainment in such study manifested in the examinations and by the thesis

The following divisions are offered as Majors

Hebrew Language and Literature

Aramaic Language and Literature

Syriac Language and Literature Assyrian and Babylonian Language and Literature

Arabic Language and Literature

The following Minors are recommended for candidates taking a Major in this department

Language cognate to the major subject

Greek (Classical)

Philosophy Hellenistic Greek (Biblical and Patristic)

These Minors shall be chosen in accordance with the general These recommendations do not prohibit other Minors being arranged between the candidate and the department When a minor subject is elected outside of the department, the candidate must obtain the consent of the department concerned to the choice of such Minor and he shall be subject to the regulations of that department in respect thereto No student of this department shall be exempt from the written examination on more than one Minor

COURSES OF INSTRUCTION

Aramasc

- 1 Introductory Palestinian Aramaic Translations from Daniel, Ezra and Targums
- 2 The development of the Aramaic dialects Professor S H Hooke Avalue
 - 1 Elementary course Translations from simple texts
 - 3 Reading of representative selections from Arabic Literature

Professor I F McLaughlin

Assyrian, Babylonian and Sumerian

1 Elementary Course Translations of Inscriptions

Professor W A Irwin

2 Assyrian and Babylonian Historical Inscriptions Professor T | Meek

3 Assyrian and Babylonian Law Codes and Business Contracts Professor T I Meek

4 Assyrian and Babylonian Religious Texts and Epics Professor T | Meek

5 Bilingual Texts and Sumerian Inscriptions

Professor T I Meek

Hebren

- 1 Prophetical Literature of the Old Testament
- 2 Poetical Literature of the Old Testament
- 3 Hebrew Wisdom Literature Professor I F McLaughlin 4 Hebrew Prophecy and Apocalypse Professor J F McLaughlin
- 5 Hexateuchal Criticism
- Professor W R Taylor 6 Critical study of selections from Prophetic Literature Professor W R Taylor
- 7 The Social Development of the Hebrews Professor W R Taylor. Syriac
 - 1 Introductory Course Translations from simple texts
 - 2 Syriac Patrology Professor S H Hooke 3 Selections from Syriac Literature Professor W R Taylor

Semulic History and Archaeology

- Semitic Epigraphy
- 2 Semitic Archaeology and Art
- 3 History of the Hebrews
- 4 History of the Near East
- 5 History of Mohammedanism

Hellenistic Greek

- 1 The Literature of the Septuagint
- Professor W R Taylor 2 Selections from Hellenistic Literature relative to the study of Religion

Professor W R Taylor

Professor S H Hooke

ENGLISH

DEGREE OF MASTER OF ARTS

Students admitted as candidates for this degree must have completed the courses required of honour students in the graduating department of English and History, or give evidence of possessing similar qualifications They are required to be in actual attendance, to cover satisfactorily the work of three of the courses outlined below, and to submit a dissertation on some subject connected with their work

DEGREE OF DOCTOR OF PHILOSOPHY

Students admitted as candidates for this degree in English are required to be in actual attendance, to cover satisfactorily the work of at least ten of the courses outlined below (or their equivalents), and to submit a thesis this thesis must, in the opinion of the department, be worthy of publication They shall further be required to take one Minor from each of the groups (a) and (b) enumerated below

The selection of Minors, of courses, and of subjects for the thesis must in every case be approved by the department

COURSES OF INSTRUCTION

The annexed schedule is intended to indicate the general character and the extent of the work required, but equivalent courses may be substituted for those contained in the list Courses 1 to 5 are identical with the undergraduate English courses 3c, 4c, 3d, 4c, and 4d, respectively, and are open only to students who have not taken these courses Those courses which are available for the session 1924-25 are marked by an agteriek

- *1-Old English Grammar and reading of Selections Fifty hours Professors Clawson and Horning
- *2-Middle English and Historical Grammar Fifty hours Professors Clawson and Horning
- *3-Milton and Seventeenth Century Literature Fifty hours Professors Edgar and Wallace
- *4-The Development of the Drama Fifty hours Professors Edgar, Knox and Simpson
- *5-Nineteenth Century Thought Newman, Carlyle, Mill, Arnold, and

Ruskin Fifty hours Professors Edgar, Simpson, and Miss M Kirkwood Professor Horning 6-Beowulf Fifty hours *7-Chaucer and his School Fifty hours Professor Clawson 8-The English and Scottish Ballads Professor Clawson 9-The Arthurian Romances Professor Horning Professor Knoy *10—Shakespeare 11-The Drama in the Seventeenth Century Professor Knox *12-Early Seventeenth Century Prose Professor Davis *13-Wordsworth Professor Wallace

14 and 15-The study of two authors approved by the Department other than those mentioned in this list

16 and 17—The study of two selected periods of literature other than

*18-Recent English Fiction and Poetry George Meredith, Thomas Hardy, Henry James, Joseph Conrad, H. G. Wells, and the chief writers of noetry since 1901 Professor Edgar

The following Minors are recommended for students taking their Major in this department

Group (a)-Any one of the following courses

*1—Gothic as an Introduction to the Study of Philology Fifty hours
Professor Horning

2—The History of Literary Criticism Professors Dale and Davis
3—English Political Thought Fifty hours Professor Kennedy.
4—Contemporary Drama Dr Pratt

Group (b)—Any of the Minors offered in Classics, French, German, Italian, Spanish, History, and Philosophy

Minors in English for candidates who are not taking their Major in English will be arranged on application

GERMAN

The selection of courses and of theses for the degrees of Master of Arts and Doctor of Philosophy must in every case be approved by the department.

DEGREE OF MASTER OF ARTS

Students admitted as candidates for the degree of Master of Arts in German must cover satisfactorily the work of at least three of the major courses outlined below and must submit a thesis on some subject connected with the work

DEGREE OF DOCTOR OF PHILOSOPHY

Students admitted as candidates for the degree of Doctor of Philosophy in German must cover satisfactorily the work of at least ten major courses and must submit a thesis which, in the opinion of the department, is worthy of publication They shall further be required to select two Minors in two approved departments other than German

Candidates taking their Major in departments other than German may select as a Minor in German any three courses of fifty hours each

COURSES OF INSTRUCTION

| Major courses (fifty hours each | Major c | ourses | (fifty | hours | each |
|---------------------------------|---------|--------|--------|-------|------|
|---------------------------------|---------|--------|--------|-------|------|

| 1-Gothic, and | Introduction | to the Stud | y of Germani | c Languages |
|---------------|--------------|-------------|--------------|-----------------|
| | | | Pr | ofessor Horning |

2-The Middle High German Popular Epic The Nibelungenied

Professor Needler

3—History of the German Drama from the Beginning to Lessing
Professor Needler

4—Lessing Professor Young

4—Lessing Professor Young
5—Goethe's Autobiographical Prose Writings Professor Young
6—Goethe's Faust Professor Lang

6—Goethe's Faust
7—Schiller's Philosophical Writings

7—Schuller's Philosophical Writings

8—The German Drama in the Nineteenth Century

Professor Lang

9—Schogenhauer in Relation to German literature

Professor Fairlev

Minor courses (fifty hours each)

10—A general acquaintance with the German Literature of the Nineteenth Century, with the reading of approved texts

Professor Lang, Professor Young

11—Middle High German Grammar and Literature

Professor Horning, Professor Needler 12-The Austrian Drama in the Nineteenth Century

Professor Lang, Professor Young

13—Goethe and his English contemporaries Professor Needler 14—Goethe's political opinions Professor Needler

15—Goethe's Singspiele and his relation to the art of music in general

Professor Needler

16—Swedish Professor Hedman 17—Dano-Norwegian Professor Hedman

18—The Dramas of Ibsen Professor Hedman 19—The Modern German Lyric Professor Hedman

Note—Other courses, major or minor, will be arranged to meet the individual needs of candidates

ROMANCE LANGUAGES

DEGREE OF MASTER OF ARTS

The general conditions of candidacy for the Master's degree will be found on pages 9 and 10. Proposed courses of study and the subject of the thess (if offered) must receive the approval of the staff in French, or in Italian, or in Spanish, in one of which the candidate must do the major part of his work.

A knowledge of standard classic authors is presupposed

DEGREE OF DOCTOR OF PHILOSOPHY

A candidate for the degree of Doctor of Philosophy shall select his major and minor subjects under the direction of the staff in Romance Languages in accordance with the general regulations The major subject shall be chosen from one of the following groups

Italian Language and Literature

Romance Philology

French Language and Literature Spanish Language and Literature

Both Minors may be selected within the department of Romance Languages One Minor must be selected within the department. If the second minor is selected outside of this department it must be chosen from a department cognate with that of the major subject. In any case the candidate must do some work in each of the four groups ammed above.

The department will not recommend the conferring of this degree merely because of the completion of a certain programme of studies Evidence must be exhibited of special aptitude and of high attainment in the field chosen by the candidate. The thesis must be a distinct contribution to the literature of the subject discussed

A student whose major subject is not in Romance Languages, but who requires a Minor in one of its groups, will be expected to make his choice of such Minor only after consultation with the staff in Romance Languages.

All graduate students and instructors of this department are members of the Romance Journal Club, original papers are read, recent publications are reviewed, and information of common interest is exchanged

Courses of Instruction

1-Methods of research, bibliography One hour a week

Professor Buchanan
2-Introduction to Romance philology Two hours a week

Professor Ford

3-(a) Old French literature, or

(b) Literary doctrines in France since 1549 Professor de Beaumont. 4—(a) Old Provencal, or

(b) Dialectal studies based on the Atlas linguistique de la France

Professor Ford

5-(a) The Arthurian romances, or

(b) The Picard dialect Professor Allen

6—(a) The sixteenth century in France, or

(b) Traditional elements in contemporary French literature
Professor Will

7—(a) The history of prose fiction in France, or

(b) The novel of manners in the Romance countries and in England
Professor Kittredge

- 8—(a) French Romanticism, its origins and development, or
- (b) Molière Professor Moraud
- 9-The theory of love in the dolce stil nuovo Professor Shaw
- 10-(a) Italian phonology and morphology, or
 - (b) A subject from Italian literature of the Renaissance
- 11-The Spanish lyric

Professor Buchanan.

HISTORY

DEGREE OF MASTER OF ARTS

Candidates are accepted under the general regulations, but before being damitted must give evidence of adequate training for advanced study in history. Candidates may proceed to the degree either by the pursuit of an advanced course of study or by the preparation of a thesis, in accordance with Rule 20 on pp 5, 8 above.

Candidates for the degree by the pursuit of an advanced course of study are required to take the following subjects

- Historical method, bibliography, and the development of English historical writing
- (2) Two of the following periods of history, to be studied in detail in the leading secondary authorities and selected primary sources. The choice of periods should be made after consultation with the teaching staff in History.
- (a) The History of Canada from the Discovery to 1763, or from 1763 to Confederation, or from the Act of Union to the present day
 - (b) The American Revolution and the framing of the Constitution
- (c) European History The Renaissance and Reformation, or The French Revolution and Napoleon, or The Nineteenth Century
 - (d) A period of Mediaeval History
- (e) British History The Tudors, or The Seventeenth Century, or from 1688-1815, or The Nineteenth Century
 - (f) English Constitutional History to 1603, or since 1603
 - (3) One of the following subjects
 - (a) Modern Political Theory
 - (b) Economic Theory
 - (c) The Economic History of England
 (d) The Organization of Modern Democratic Government
 - (e) The Political Institutions of the British Empire

Candidates for the degree by the preparation of a thesis are required to take course (1) above, and one of the options in (3). They must present a thesis on an approved subject based on the sources and prepared under the direction of the staff in history. They will in addition be examined on their knowledge of the general historical background of the subject in Chosen Candidates who offer a subject in Canadian History should be prepared to avail themselves of the facilities for research in the Dominion Archives at Citaza.

DEGREE OF DOCTOR OF PHILOSOPHY

Candidates are accepted under the general regulations The choice of major and minor subjects should be made from the list given below, though other subjects may be arranged by consultation with the staff in History All candidates are required to take a course in Historical Method, Bibliography, and the development of English historical Writing

Candidates must present a thesis of such a character as to constitute an addition to the literature of the subject selected Candidates who offer a subject in Canadian History should be prepared to avail themselves of the facilities for research in the Dominion Archives at Ottawa

- (1) The History of Canada
- (2) The American Revolution
- (3) The French Revolution and Napoleon
- (4) Nineteenth Century Europe (5) A period of Mediaeval History
- (6) The Renaissance
- (7) English Constitutional History
- (8) The History of the modern British Empire

POLITICAL SCIENCE

DEGREE OF MASTER OF ARTS

Candidates for the degree of Master of Arts in the department of Political Science must present evidence of fitness for advanced study in the department, either by having taken special undergraduate courses in Political Science, Commerce and Finance, History, or Philosophy, or by giving such other proof of sufficient knowledge as will justify their acceptance as advanced students. Each candidate is required to submit, for the approval of the staff in Political Science, on or before the date prescribed in the general regulations in this connection, the title of the thesis proposed. The thesis must be submitted in complete form on or before the 1st May. An oral examination upon the subject of the thesis will be conducted by the staff of the department before the candidate is recommended to the Council of the School of Graduate Studies for the degree.

DEGREE OF DOCTOR OF PHILOSOPHY

Candidates may proceed to the Degree of Doctor of Philosophy in the manner prescribed in the general regulations. They may select their major course from the following list

Economic History Economic Theory

Public Finance

Philosophy of Politics

Constitutional History and Law

Special subjects cognate to any or all of the above general courses are to be regarded as included under them

Special postgraduate courses, varying it topica according to the needs of the students, are customarily given by the staff in the department incomparation is attached to individual assistance in the investigation of specific problems. The thesis offered by the candidate must present either results of an original investigation into some problem and thus form a contribution to knowledge or a contribution to the results on the results of an original investigation by others and thus form a contribution to acholarhip. One Minor subject must be selected from the last given above and the other from the subjects offered by the departments of History and Philosophy in exceptional currentssances candidates may submit for the approval of the department some other subjects of study as a second Minor, even though nor obvoously related to the Manor.

An oral examination will be conducted by the staff of the department in the major and in the first minor subject before the candidate is recommended to the Council of the School of Graduate Studies for the degree

PHILOSOPHY

DEGREE OF MASTER OF ARTS

Candidates for this degree will proceed under the general regulations, to be found on pages 7-9

Except in special cases, candidates will be expected to qualify by pursuing an approved course of study, and passing a satisfactory examination therein

Candidates for this degree fall into two classes, viz, those who have, and those who have not taken the Honour work in Philosophy for their B A degree

Those who have taken the BA degree with honours in Philosophy must select their subjects of study from Courses 8-20, given below Four courses of study will be required for the degree. Not more than two courses may be selected from any one division of the department. In cases where permission is granted by this department, one subject may be taken from another department or two subjects, provided that one is from the department of Psychology. Subject to the approval of this department at these may be substituted for one of the courses.

Those students who have not graduated with honours in Philosophy, will be required, before being admitted as candidates for the degree, to take such preliminary courses, or to furnish such other proof of sufficient knowledge as will justify their admission to graduate courses. They will select their subjects of study in consultation with the staff in Philosophy The work may be expected to require two years in most cases

Candidates who furnish evidence satisfactory to the staff of the department of their qualifications for original investigation may with the consent of the department qualify by writing an approved thesis, and taking special work in consultation with the staff in Philosophy (20, I (b))

The writer of a thesis will be required to report regularly to the head of the department, and also to the head of the division in which his thesis falls

DECREE OF DOCTOR OF PHILOSOPHY

Candidates for this degree must present a thesis embodying the results of independent investigation, of such a character as to make a distinct contribution to the literature of the subject and to show capacity for original research on the part of the writer. The writer of a thesis must report regularly to the head of the department, and also to the head of the division on which his thesis falls

Students are recommended to complete the work for the degree of Mast er of Arts as part of the work for this degree At least one additional subject will be required for the minor in Philosophy of candidates who have completed the work for the Master's degree

For the second Minor students must fulfil the requirements of the department in which such Minor is taken. Both Minors must be selected after consultation with the staff in Philosophy

Divisions of the department History of Philosophy, Logic and Epistemr logy, Ethics

COURSES OF INSTRUCTION

The following courses are offered to graduate students In each of these courses fifty hours will be required, including lectures and seminar work Standing in these courses will be determined by examinations, or other tests, as the staff may determine

GENERAL.

- 1-History of Philosophy Kant and modern systems
- Professor Hume 2-History of Modern (chiefly British) Philosophy Professor Huma 3-History of Ancient Philosophy Professor Brett
- 4-Logic. Deductive and Inductive Theory of the Judgment
- Professor Brett 5-Etlucs, Kant and Green Professors Tracy and Lane
- 6-Modern Ethics Professors Tracy and Brown

HISTORY OF PHILOSOPHY

8-Proofs of God's Existence in Modern Philosophy Professor Hume 9-Modern Philosophy, with special reference to the Hegelian Move-

ment Professor Hume 10-(In alternate years with 9) Modern Philosophy, with emphasis on the Anti-Rationalist, Empiricist, and Pragmatist Writers

Professor Hume 11-Modern Philosophic Problems (Individuality, Value, the Absolute

Nature, Evil)

12-Ancient Philosophy from Thales to Plato

13-Ancient Philosophy from Plato to Augustine Professor Brett 14-The relation between the Metaphysics of St. Augustine and Plato

Professor Brett Professor Carr

LOGIC AND EPISTEMOLOGY.

15-Principles and Methods of Modern Thought-Special Subject Realism Professor Brett 16-Recent discussions in the Theory of Knowledge and Being

Professor Brown

ETHICS

17-Idealism in Ethical Theory Professor Tracy

18-The Philosophy of Bergson, with emphasis on its Ethical Aspects Professor Lane

Professor Robinson 19-The Evolution of Morals 20-Social and Political Ethics Professor Robinson

The following Minors are offered in this department for candidates whose Majors lie in other departments

> Philosophy A-Courses 1 and 2 Philosophy B-Courses J and 12 or 13 Philosophy C-Courses 4 and either 13 or 14. Philosophy E-Courses 6, and either 5 or 7

PSYCHOLOGY

DEGREE OF MASTER OF ARTS

Candidates for this degree are accepted under the general regulations Applicants who have not satisfied the staff as to their fitness for advanced work in this department must first take such preliminary work as the staff may recommend. In such cases the time required for the degree will normally be two years

Candidates may qualify by selecting a course of study comprising not less than three graduate courses of instruction, two of these must be selected from courses named below, and the remainder may be selected from other courses offered in the University. The selection of courses must be approved by the staff of this department.

Candidates who satisfy the department as having special qualifications for original work may be allowed to qualify for this degree by writing an approved thesis (regulation $20, 1\ (b)$) and by consulting regularly with those members of the staff who supervise the work undertaken

COURSES OF INSTRUCTION

1-Psychology of intelligence, character and temperament

| 2-Abnormal Psychology | Professor Bridges |
|--|-------------------|
| 3-Problems in Clinical Psychology | Professor Bridges |
| 4-Introduction to critical analysis | Professor Bott |
| 5-Problems in Experimental Psychology | Professor Bott |
| 6-Historical development of Psychology | Professor Brett |

DEGREE OF DOCTOR OF PHILOSOPHY

Candidates for this degree must present a thesis containing the results of an original investigation and showing capacity for independent research

The major subject and one minor may be selected from Psychology The second minor may be selected from the minors offered by any other department in the University. The selection of the major and both minors must be made with the approval of the staff of this department. Minors in Psychology for candidates who are not taking their major in Psychology will be arranged on application.

EDUCATIONAL THEORY

DEGREE OF MASTER OF ARTS

Candidates for this degree are accepted under the general regulations

Candidates may qualify for the degree by pursuing three approved courses of study Of these three one must be selected from the MA courses specified below, one from the courses offered by another department of the University, and the thurd from the courses offered in this or any other department of the University. The selection of courses must be approved by the staff of this department.

Every candidate for the degree is required to present a thesis embodying the results of some special study or original investigation

The time required to complete the requirements for the degree will normally be two years

Dann Palranham

DEGREE OF DOCTOR OF PHILOSOPHY

Courses leading to the degree of Doctor of Philosophy are offered to students qualified under the general regulations. Candidates may elect to take their major subjects in any of the sections A to D below. Of the minors one may be selected in the subjects offend below, one must, and both may, be chosen from minors offered in other departments of the University. The minors are also open to candidates whose major subject less manother department.

The thesis submitted must be a distinct contribution to knowledge and show capacity for original research

Courses of Instruction

A Educational Administration

- *1 Education Administration in Ontario
- B History of Education
- 2 History of Education in Great Britain during the nineteenth century
 7 Professor Macpherson
 8 History of Education in Ontario during the nineteenth century
 - Professor Macpherson

Professor Macpherson

C Educational Psychology

- *5 The Psychology of Mathematics Professor Sandiford
 *6 Studies of Men and Women of Genus. Professor Sandiford
- *6 Studies of Men and Women of Genius, Professor Sandiford

 *7 The Theory of Educational Measurements Professor Sandiford
- 8 Intelligence Its Nature and Measurement Professor Sandiford
- 9 Achievement Tests Their Construction and Use
 Professor Sandiford

10 The Psychology of Individual Differences Professor Sandiford

D The Science and Philosophy of Education

- 11 Educational Sociology Professor Coombs 12 Philosophy of Education Professor Coombs
- 18 Science of Education Professor Coombs
- *14 Scientific Study of Educational Method Professor Coombs
- *15 Social Ethics Professor Coombs

Note-Courses indicated * are M A courses and minors

MATHEMATICS

DEGREE OF MASTER OF ARTS

Candidates for this degree are accepted under the general regulations

DEGREE OF DOCTOR OF PHILOSOPHY

A candidate proceeding to the degree of Doctor of Philosophy in this department may select his major subject from any of the branches of Mathematics after consultation with the staff

The thesis submitted for the degree must give evidence of original investigation and must constitute a distinct addition to the knowledge of the subject

Courses of Instruction

| 1-Differential Calculus Fifty hours | Professor Fields |
|--|---------------------------|
| 2-Integral Calculus Fifty hours | Professor Pounder |
| 3-Differential Equations Fifty hours | Professor Fields |
| 4-Theory of Functions Fifty hours | Professor DeLury |
| 5-Theory of Functions of a Real Variable | Fifty hours |
| | Professor DeLury |
| 6-Advanced Theory of Functions of a Comp | lex Variable One hundred |
| hours | Professor DeLury |
| 7-Theory of Algebraic Functions and Ab | elian Integrals (Based on |
| Riemann, Noether, etc.) Fifty hours | Professor Fields |
| 8-Theory of Algebraic Functions and Abeli | an Integrals (Methods of |
| the lecturer) Fifty hours | Professor Fields |
| 9-The Algebraic Theory of Algebraic Ft | inctions of one Variable |
| Twenty hours | Professor Beatty |
| 10-Theory of Elliptic Functions Fifty hou | rs Professor Fields |
| 11-Calculus of Variations Fifty hours | Professor Fields |
| 12-Determinants and Theory of Matrices | Fifty hours |
| | Professor Fields |
| 13-Theory of Rational Numbers Fifty h | ours Professor Fields |
| 14-Theory of Algebraic Numbers including | the theory of the ideals |
| Fifty hours | Professor Fields |
| 15-Theory of Substitutions With applicatio | ns to Algebraic Equations |
| Twenty-five hours | Professor DeLury |
| 16-Theory of Continuous Groups Fifty 1 | nours Professor Beatty |
| 17-Theory of Sets and Transfinite numbers | One hundred hours |
| | Professor Beatty |
| 18-Infinite Series Fifty hours | Professor Beatty |
| 19—Differential Geometry Fifty hours | Professor Synge |
| 20-Elliptic Functions Fifty hours | Professor Pounder |
| 21-Modern Analysis Fifty hours | Professor Beatty |

22-Differential Equations (Existence-Theorems, etc.) Fifty hours 23-Rational Mechanics Fifty hours Professor Synge 24-Elliptic Functions Fifty hours Mr Stevenson 25-Foundation of Geometry Fifty hours Professor DeLury 26-Actuarial Science Frequency Curves and Correlation, Measure-

Professor Pounder

ment of Groups and Series Fifty hours Professor Mackenzie Candidates taking a Major in Mathematics may select as one Minor any

of the above courses except Nos 1 and 2 The second Minor may be selected from any of the Minors offered by departments of the University other than Mathematics

Courses Nos 1 and 2 constitute a Minor in Mathematics (Mathematics A) for departments other than Mathematics, Physics, and Astronomy The department is prepared to offer other Minors which must be arranged by consultation with the staff in Mathematics and the staff of the department in which the major subject lies

Courses Nos $\,1$ to 4 are offered each year in the Undergraduate Courses in Honours

Courses Nos 11, 15, 22, 24, 25 were given session 1923-1924

The selection of courses to be given academic year 1924-1925 will be made at the opening of the session

PHYSICS

DEGREE OF MASTER OF ARTS

Candidates for this degree are accepted under the general regulations

DEGREE OF DOCTOR OF PHILOSOPHY

Candidates for admission to the Degree of Doctor of Philosophy must have a competent knowledge of Mathematics and Chemistry

Candidates may proceed to the Degree of Doctor of Philosophy in this Department in either of the following major divisions —

Experimental Physics Mathematical Physics

COURSES OF INSTRUCTION

1—The Electromagnetic Theory of Light and the Electron Theory of Matter Fifty lectures Professor McLennan

Matter Fifty lectures Professor McLennan
2—Atomic Structure and the Origin and Characteristics of Spectra
Fifty lectures. Professor McLennan

3.—Theories of Radiation, including Photoelectricity and other illustrations of the Quantum Theory Fifty lectures Professor McLennan 4.—The Principle of Relativity with applications Fifty lectures

Professor McLennan
5—Mathematical Theory of Electricity and Magnetism Fifty lectures

7'-Properties of Matter Fifty lectures
Professor Satterly
8-Advanced Heat and Thermodynamics Fifty lectures

9—Theory of Optics Fifty lectures Professor Satterly
10—Modern Theories of Magnetism Twenty-five hours

Professor McLennan

11—The Physical Properties of Colloidal Solutions Twenty-five lectures
12—Weeter Applysis Twenty-five lectures
Professor Burton
Professor Burton

12—Vector Analysis Twenty-five lectures Professor Burton 13—Generalized Coordinates and their application to Physical Professor Burton Twenty-five lectures Professor Burton

14—Radioactivity Twenty-five lectures Professor Satterly
15—Vapour Pressure, Osmotic Pressure and Related Phenomena

15—Vapour Pressure, Osmotic Pressure and Related Prenomena Twenty-five lectures
16—Theory of Measurements Twenty-five lectures

Professor Satterly
17—Acoustics, Fourier's Series and its applications to Physics Twentyfive lectures Professor Gilchrist

18—Wave Motion in Elastic Media Twenty-five lectures

19—Geometrical Optics Thirty-five lectures Professor McTaggart
20—Hydromechanics Twenty-five lectures Professor McTaggart

21—Modern Optical Instruments, with an introduction to practical computing Twenty-five hours Professor McTaggart.

Note—Laboratory work in the majority of the above courses will be offered, but such work will not count for more than twenty per cent of the whole course

22—Physics Seminar This organization consisting of all instructors, graduate students, and advanced students in the department meets fortnightly on Thursdays from 4 15 to 6 o'clock for the discussion of recent research

Candidates for the Degree of Doctor of Philosophy taking their major subject in either Experimental or Mathematical Physics may select but one Minor from the department of Physics This Minor may be either one of Courses 1, 2, 3, 4, 5, 6, 7, 8, 9, or two of Courses 10, 11, 12, 13, 14, 15, 10, 17, 18, 19, 20, 21 The second minor may be selected from Mathematics, Astronomy, Chemistry A, B, C, D, E, or Mineralogy A, B, C, Goophysics, Physical Botany

The following Minors are available in the Department Physics A—One of Courses 1, 2, 3, 4, 5, 6, 7, 8, 9

Physics B—Two of Courses 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21

ASTRONOMY

DEGREE OF MASTER OF ARTS

Candidates for this degree are accepted under the general regulations

DEGREE OF DOCTOR OF PHILOSOPHY

This department is not prepared at present to accept candidates for the degree of Doctor of Philosophy The following Minors are available for candidates taking their Major in other departments

Astronomy A—The Application of Physical Methods to Astronomical Problems Fifty lectures Professor Chant

Astronomy B—Spherical Astronomy, including the use of the Nautical Almanac and exercises in computing Forty lectures Professor Chant

BIOLOGY

DEGREE OF MASTER OF ARTS

Graduate work leading to the degree of Master of Arts is offered in the various subjects enumerated below under "Courses of Instruction" Except in special cases, candidates will be expected to qualify in accordance with Section 20, 1 (b) of the regulations

DEGREE OF DOCTOR OF PHILOSOPHY

Graduate work leading to the degree of Doctor of Philosophy is offered in the divisions indicated, subject to the following conditions

1—Students electing major work must possess adequate qualifications for beginning work of a graduate character in the major subject, must be able to search the literature in the modern forcing languages, and must possess a competent though elementary knowledge of Physics and Chemistry For the final examination a knowledge of the general field of Biology will be considered necessary. The thesis must include an original contribution to the knowledge of the subject.

- 2-Students electing major work must have their entire course of study approved by the instructor in charge of the major subject
- 3—Students electing major work may not select more than one Minor out of the subjects separately listed as Minors for this Department
- 4—Students electing minor work must have their selection approved by the instructor in charge of the subject
- 6—The standing to be attained in a minor subject shall be understood be in general equivalent to Homous standing in the four-hour course of a corresponding subject of the Fourth Year undergraduate course, except in special cases in which (a) exemption or part exemption from one Munic way be granted to students who already have comptein knowledge of the subject, or (d) other requirements may be made depending on the previous training of the student.

Major work is offered in the following subjects

Vertebrate Zoology Hustology
Invertebrate Zoology Embryology
Limnobiology Animal Genetics
Marine Biology Comparative Neurology
Entomology

Courses of Instruction

1—†General Biology A course of lectures and conferences on the general problems of Biology The Staff in Biology

2-Vertebrate Zoology A laboratory course of 100 hours on the system, morphology and distribution of the Vertebrates

Professor Bensley.
3-*Invertebrate Zoology A laboratory course of 100 hours on the

system, morphology and distribution of the Invertebrates

Professor Walker

4—*Limnobaology A course on the system, morphology and oecology of

4—*Limnobiology A course on the system, morphology and oecology of fresh-water organisms, with special reference to fishery problems Professors Walker and Dymond

5—‡Marine Biology Special research on the oecology of marine organisms Professor Huntsman

6—‡Entomology A course on the morphology, classification and oecology of the Insects, with special research, in conjunction with Course 3

Professor Walker

7—†Animal Histology A laboratory course of 100 hours on animal histology and cytology including histological technique

istology and cytology including histological technique
Professor Piersol
8—*Microscopic Anatomy of Vertebrates A laboratory course of 100

hours including histological technique Professor Piersol

9—*Vertebrate Embryology A laboratory course of 100 hours on the

general embryology of Vertebrates Professor Piersol

10—*Animal Genetics A course on the principles and problems of

Heredity, Variation and Breeding of Animals Professor MacArthur

11—*Comparative Neurology A course on the composition of the

nervous system in the mammalia and lower vertebrates Dr Craigie 12—*Experimental Embryology A course on the history, methods and

results of experimental embryology Professor Coventry

Note—Courses indicated* are offered as Minors, or in conjunction with advanced work, literature, problems and research in a special division of the field as Majors

Courses indicated † are offered as Minors only

Courses indicated ‡ are available as Majors only, and must be taken in conjunction with the subjects specified

Except for the conditions mentioned above (Sections 1-4), no restrictions are imposed with reference to the selection of major and minor subjects Students are advised, in making a preliminary choice of subjects, to keep in view the possible requirements of their future fields of work

BOTANY

DEGREE OF MASTER OF ARTS

Graduate work leading to the degree of Master of Arts is offered in the various subjects enumerated below under "Courses of Instruction" Except in special cases, candidates will be expected to qualify in accordance with Section 20, 1 (b) of the resultations

DEGREE OF DOCTOR OF PHILOSOPHY

Graduate work leading to the degree of Doctor of Philosophy is offered subject to the following conditions

1—Students electing major work must possess adequate qualifications for beganning work of a graduate character in the major subset, and must possess a competent though elementary knowledge of Physics and Chemistry For the final examination a knowledge of the general field of Biology will be considered necessary. The thesis must include an original contribution to the knowledge of the subject.

2-Students electing major work must have their entire course of study approved by the instructor in charge of the major subject

3-Students electing major work may not select more than one Minor from the list enumerated below

4-Students electing minor work must have their selection approved by the instructor in charge of the subject

6—The standing to be attained in a minor subject shall be understood to be in geneal equivalent to Honour standing in the four-hour course of a corresponding subject of the Fourth Year undergraduate course, except in special cases in which (a) exemption or part exemption from one Minor may be granted to students who shready have competent knowledge of the subject, or (b) other requirements may be made depending on the previous training of the student

Major work is offered in the following subjects

Morphology of Cryptogams Morphology of Phanerogams

Plant Anatomy

Plant Occology Plant Physiology

Plant Pathology

COURSES OF INSTRUCTION

1—*Cryptogamic Botany I A lecture and laboratory course of 100 hours on the system and morphology of the Liverworts, Mosses, Ferns and fern allies Professor Faull.

2—*Cryptogamic Botany II A lecture and laboratory course of 100 hours on the system and morphology of the Algae, Fungi, and Slime-moulds

Professor Faull

3-*Mycology A special course on the system, morphology, and biology

of the Fungi Professor Faul!

4—*Morphology of Phanerogams A laboratory course of 100 hours on
the morphology of Angiosperms, Gymnosperms and related fossil forms

Professor Thomson

5—‡Anatomy of Gymnosperms A special course on the comparative

anatomy of the Gymnosperms, in conjunction with Course 4
Professor Thomson

6—*Plant Physiology A lecture and laboratory course of 100 hours on the physiology of plants $$D_{\Gamma}$$ G $\,$ H $\,$ Duff

7—*Oecology and Plant Geography A course of 100 hours on plant associations, the adaptations of plants to environmental factors, and geographical distribution

8-Palacobotany A special course on fossil plants Research in conjunction with course 5 Professor Thomson

9—*An experimental and seminar course on the principles of genetics

Professor Thomson

10—*Plant Pathology Professor Fauli
11—*Structural Oecology A lecture and laboratory course of fifty
hours and research in conjunction with Courses 4 and 5
Professor Thomson

12—*Poisonous Plants 100 hour lecture and laboratory course

Professor H B Sitton
Note—Courses indicated* are offered as Minors, or in conjunction with
advanced work, literature, problems and research in a special division of
the field as Majors

Courses indicated ‡ are available as Majors only, and must be taken in conjunction with the subjects specified

Except for the conditions mentioned above (Sections 1-4), no restrictions are imposed with reference to the selection of major and minor subjects Students are advised, in making a preliminary choice of subjects, to keep in view the possible requirements of their future fields of work

ZYMOLOGY

DEGREE OF MASTER OF ARTS

Candidates for this degree will be required to show that they have reached the standard for the degree of BA, or its equivalent, in at least two of the following subjects. Biochemistry, Organic Chemistry, General Physiology or Plant Physiology. In addition to work done in prescribed courses candidates are required to present a thesis based on research work done in the Department

DEGREE OF DOCTOR OF PHILOSOPHY

Candidates for this degree will be required to show that they have reached graduate standing in two or more of the subjects conumerated above. The thesis presented with the application must constitute a distinct contribution to the knowledge of the subject. Candidates are advised to choose Minors in accordance with the Regulations for the Degree from the following:

Biochemistry 2 and 4
Pathology and Bacteriology 2
General Physiology 2 and 4
Organic Chemistry 1 and 2
Physics 11 and 16

COURSES OF INSTRUCTION

- 1 Mscrobsology Course of lectures throughout the year on the theoretical aspects and practical applications of yeasts, molds and bacteria.
 - 2 Laboratory Course Conducted in conjunction with Course 1
- 3 Enzyme Chemistry Advanced lectures on the preparation and properties of enzymes and the theory of enzyme action

Candidates taking a Minor in Zymology are required to attend Courses 1 and 2

ANATOMY

DEGREE OF MASTER OF ARTS

Any of the minor courses described below may be taken as leading to the degree of Master of Arts Course 5 is also open to those who have covered the ground represented by the Minors

DEGREE OF DOCTOR OF PHILOSOPHY

The work required of candidates for the degree of Doctor of Philosophy with a Major in Anatomy will be principally the preparation of a thesis based upon an investigation of some anatomical problem, together with the reading of the literature cornate to the research

As a preliminary requirement it will be necessary that the candidate shall have taken a course in General Biology and courses in Vertebrate Anatomy (Biology Course 2), Histology and Embryology

The last two may be taken as Minors

Candidates taking a Major in this Department are recommended to select their Minors from the departments of Anatomy, Zoology, Physiology, Biochemistry, and Pathology

COMPRES OF INSTRUCTION

The following courses of instruction are offered by the department

1—Human Anatomy Laboratory and lectures Sixteen hours a week

throughout the year Professor McMurrich and Professor Watt
2—Human Microscopic Anatomy A laboratory course of 100 hours
including histological technique Professor Piersol

3—Anatomy of the Nervous System Lectures and Demonstrations
Sixty-four hours Professor Linell

4—Vertebrate Embryology A laboratory course of 100 hours

Professor Piersol

5—Advanced Human Anatomy Laboratory and reading

Professors McMurrach, Persol, Watt and Lanell
Courses 1-4 are offered as muors Course 5 is eopn only to those who have taken Courses 1-4 White the advanced work and research will list manually in on special field (Gross Anatomy, Neurology, Embryology, Hastology) the subject selected will be followed into the associated fields, one of which may be selected as a Minor

BIOCHEMISTRY

DEGREE OF MASTER OF ARTS

Candidates for this degree are accepted under the general regulations. All candidates who have not previously taken the course of lectures and laboratory work in advanced Biochemistry (Biochemistry 2 and 4) or its equivalent, will be required to take this course

DEGREE OF DOCTOR OF PHILOSOPHY

Candidates for the degree of Doctor of Philosophy are required to submit a thesis which constitutes a distinct addition to the knowledge of the subject, and of such value as to merit publication in one of the leading scientific journals

Candidates for the degree of Doctor of Philosophy in this department who do not intend taking Physiology as a minor are reminded that the relationship between these two Sciences is so intimate as to render a knowledge of the dements of mammalian physiology extremely advisable Candidates are furthermore reminded that mathematics is becoming of very great importance in the investigation of the chemical phenomena of life, and they are strongly urged to acquire a knowledge of elementary differential and integral calculus and of statistical methods

Students taking their major in Biochemistry may select their minors from any other division of graduate study offered by the University The following subjects of study are, however, suggested as appropriate adjuncts to the study of Biochemistry

Anatomy
Bacteriology
Biology
Botany
Chemistry
Histology
Household Science
Mathematics
Pathological Chemistry
Pathology
Pharmacology
Pharmacology
Physics
Physiology
Phychology
Prevchology

Zymology

Candidates for the degree of Doctor of Philosophy who desire to take a minor in Biochemistry will be required to pass an examination covering the field comorised in Courses 1, 2, 3 and 4

COURSES OF INSTRUCTION

- 1-General Biochemistry Ninety Lectures
- 2-Advanced Biochemistry Sixty lectures
- 3-A Laboratory Course in General Biochemistry One hundred and twenty hours
 - 4-A Laboratory Course in Advanced Biochemistry
 - 5-Research in Biochemistry

PHYSIOLOGY

DEGREE OF MASTER OF ARTS

Candidates for the degree are accepted under the general regulations All candidates will be required to show credits for all the courses of this department or their equivalent Courses 1, 2, 4 and 5 must be completed before entering upon the work for the M A degree The other Courses may be taken simultaneously.

COURSES OF INSTRUCTION

The following courses of instruction each extending throughout the session are offered

- 1 Systematic lectures, two a week during second and third years
 - (a) General and neuro-muscular physiology
 - (b) Physiology of circulation, respiration, digestion and secretion

- (c) Metabolism, the functions of the ductless glands and reproduction
 - (d) Physiology of the central nervous system and special senses
 2. Lectures in General Physiology
 - 3 Advanced lectures, two a week (third year-optional)
 - 4 General Laboratory courses (total 180 hours)
 - 5 Laboratory course in General Physiology 6 Advanced Laboratory courses (optional)
 - 7 December Discontinuo
 - 7 Research in Physiology
 - 8 Journal Club, one hour a week
- 9 Optional course Laboratory work in selected parts of subject (available to students of the third and subsequent years in the Medical facults)

10 History of Physiology A course of lectures supplemented by discussions towards which the students contribute

DEGREE OF DOCTOR OF PHILOSOPHY

Candidates for the degree of Doctor of Philosophy are required to submit a thesis which constitutes a distinct addition to the knowledge of the subject, and of such value as to ment publication in one of the leading scientific journals

Candidates for the degree of Doctor of Philosophy in this department who do not intend taking Biochemistry as a minor, or have not already taken the undergraduate courses in this subject are reminded that these two sciences are so intimate as to render a knowledge of general Biochemistry extremely advisable They should at least take courses 1 (General Biochemistry) and 3 (a laboratory course in General Biochemistry) of the Department of Biochemistry A general course in experimental Pharmacology is also almost essential Certain courses in Biology, which should include vertebrate histology and cytology (7) comparative neurology (16) are of importance. A good training in Physics such as that mapped out for the honour degree in Physiology and Biochemistry is required Similar courses in Mathematics are also required save in exceptional circumstances Certain other courses in Physics are recommended Students taking their major in Physiology may select their minors from any other division of graduate study offered by the University The following subjects are suggested as appropriate, their relative importance as adjunct to the study of Physiology being indicated in a general way by the order in which they stand Biochemistry (1 and 3)

Pharmacology
Histology and Cytology (7 or 8 Biol)
Neurology (11 Biol and 3 Anat)

and one or more of the following
Embryology (9 Biol)
General Biology (1 Biol)
Mathematics
Pathological Chemistry
Physics 7, 19, 21

Psychology
When Physiology is taken as a minor, courses 1 and 4 are required as detailed above

FOOD CHEMISTRY

DEGREE OF MASTER OF ARTS

Candidates for this degree are accepted under the general regulations

COMPSES OF INSTRUCTION

1—The Chemical Nature of the Constituents of Foods Lectures and laboratory work

2—Fundamental Studies of Nutrition Lectures and laboratory work

PATHOLOGY AND BACTERIOLOGY

DEGREE OF MASTER OF ARTS

Candidates for this degree are accepted under the general regulations

DEGREE OF DOCTOR OF PHILOSOPHY

Candidates for the degree of Doctor of Philosophy are required to submit a thesis which constitutes a distinct addition to the knowledge of the subject, and of such value as to ment publication in one of the leading scientific journals

Candidates in this department may proceed to the degree in either of the following major division

Experimental Pathology

Bacteriology, including Immunology,

As these two departments are closely inter-related candidates are reminded that either major division may necessarily include considerable work in the other and that consequently neither can be accepted as a minor

Candidates taking Experimental Pathology are reminded that a prerequisite for the study of experimental pathology is a knowledge of Physiology and those who do not propose taking Physiology as a minor must show credits of undergraduate work of honour standing

Candidates taking Bacteriology and Immunology must similarly take Biochemistry or Pathological Chemistry as a minor or show credits of honour undergraduate standing in these subjects The following subjects are suggested as minors

Physiology I and 4 Biochemistry I and 4 Pathological Chemistry 1, 3 and 4 Chemistry 4 and 5 Biology I and 8 Physics 9 and 18

The following courses are offered as minors

Bacteriology,

I—A laboratory course of one hundred and thirty-five hours in the principles and technique of Bacteriology and Immunology and the application of this subject to Medicine supplemented by a course of lectures (30 hours)

2-A laboratory course of sixty-five hours in Immunology

Botany 2 or 3

General Pathology

1—A course of lecture supon the principles of Pathology (50 hours), along with a laboratory of one hundred hours, illustrating the important phases of the subject

PATHOLOGICAL CHEMISTRY

DEGREE OF DOCTOR OF PHILOSOPHY

Candidates proceeding to the degree of Doctor of Philosophy in this department must cover the field of Pathological Chemistry in addition to the investigation of some selected problem

Students taking their Major in this department are recommended to select their Minors from the following

Chemistry, A or C Biochemistry Physiology Pathology,

COURSES OF INSTRUCTION

1—General Pathological Chemistry Thirty lectures
2—Special Pathological Chemistry

3—Elementary Laboratory Course Sixty hours
4—Advanced Laboratory Course Sixty hours

The following Minor is offered by the department
Pathological Chemistry A—Courses 1, 3 and 4

CHEMISTRY

DEGREE OF MASTER OF ARTS

A student who is proceeding to the degree of Master of Arts in accordance with the general regulations must consult the staff as to the selection of suitable courses of study

DEGREE OF DOCTOR OF PHILOSOPHY

The thesis submitted for the degree of Doctor of Philosophy in this department must constitute a distinct contribution to the knowledge of the subject

The following major divisions leading to the degree are offered

Organic Chemistry

Physical Chemistry

Candidates taking a Major in either of these divisions may not select as Minors Chemistry A, C, or E The following Minors are recommended

Major subject—Organic Chemistry

Minors-Chemistry D

Bio-chemistry A, Pathological Chemistry A, or Botany 6
Major subject—Physical Chemistry

Minors-Chemistry B, Mathematics A, Physics A or Physics B

COURSES OF INSTRUCTION

The following courses of instruction are open to graduate students. The section of any of these courses presupposes an adequate knowledge of elementary Chemistry.

1—Systematic Organic Chemistry Fifty lectures (Open only to students who have already attended a preliminary course) Professor Allan

2-Practical Organic Chemistry Seventy-five hours

3—Advanced Organic Chemistry Heterocyclic Compounds, Synthetic Methods, Stereochemistry Fifty lectures Professor Allan 4—Physical Chemistry Fifty lectures (Open only to students who

have already taken a preliminary course and have had instruction in the calculus) Professor Kenrick

5-Practical Physical Chemistry Seventy-five hours

6—Advanced Physical Chemistry The Phase Rule and Chemical Thermodynamics Seventy-five lectures Professor Miller, 7—Inorganic Chemistry A course of reading on topics selected with

7—inorganic Chemistry A course of reading on topics selected with reference to the major subject The candidate must give evidence of proficiency in chemical analysis

8—Chemical Theory Sixty hours

9-Mathematical Chemistry Sixty hours

The following Minors are offered by this department Chemistry A-Courses 1 and 2

" B—Course 3

- C—Courses 4 and 5
- " D—Course θ
- " E—Course 7

GEOLOGY AND PALAEONTOLOGY

DEGREE OF MASTER OF ARTS

Candidates for the degree of Master of Arts are accepted in this department under the general regulations

DEGREE OF DOCTOR OF PHILOSOPHY

Candidates for the degree of Doctor of Philosophy are required to subthesis which constitutes a distinct addition to the knowledge of the subject. In addition to the necessary preparation in Geology, a candidate must possess an adequate knowledge of the cognate sciences—Biology, Chemistry, Physics, and Mineralogy

The following divisions constitute Majors in this department Geology

Stratigraphical Geology and Palaeontology Economic Geology

Courses of Instruction

The courses of instruction open to graduate students are given below. None of these courses, as part of either a Major or a Minor, may be taken by a candidate without a preparatory knowledge of the subject

1-Dynamical and Structural Geology Fifty lectures

2—Invertebrate Palaeontology Fifty lectures on Murphology and Classification Professor Parks

3-Practical Invertebrate Palaeontology Seventy-five hours

4—Precambrian Geology Twenty-five lectures Professor Moore

5—Glacial Geology and Physiography Twenty-five lectures

6-Economic Geology Fifty lectures

Professor Moore
7—Stratigraphical Geology Seventy-five hours lectures and labora-

tory Professor Moore

8—Mining Geology. Twenty-five lectures Professor Moore
9—Practical Economic Geology Fifty hours Professor Moore

10-Metamorphism Twenty-five lectures Professor Moore

Professor Parks

11-Geological Climatology Twenty-five lectures Professor MacLean

12-Advanced Stratigraphy and Palaeontology One afternoon a week covering the geological column in three years Session of 1924-25, the

13-Palaeontology Twenty-five lectures on special topics selected from Professor Parks year to year

14-Principles of origin and occurrence of economic mineral deposits Professor Moore

15-Geological Seminar One hour per week

Mesozoic

16-Field work (a) Pleistocene Geology, two weeks, (b) Precambrian Geology, two weeks, (c) Palaeozoic Geology, two weeks

Candidates pursuing a Major in any of the divisions of the department may select one but not two Minors from the departments of Geology and Mineralogy combined The following Minors are recommended for candidates taking a Major in this department

| Major | MINORS RECOMMENDED |
|--|---|
| Geology | Mineralogy A, B, or C, and Chemistry E or Biology 8 |
| Stratigraphical Geology and Palaeontology | Geology A or C, or Mineralogy A and Chemistry E, or Biology 1, 8, or 11 |
| Economic Geology | Geology A or B or Mineralogy A or C and Chemistry C, or Physics A or B |

The following Minors are offered by the department

Geology A-Courses 1, 4, and 5 Geology B-Courses 2, 3, and 7

Geology C-Courses 6, 8, and 9

MINERALOGY

DEGREE OF MASTER OF ARTS

Candidates for this degree are accepted under the general regulations

DEGREE OF DOCTOR OF PHILOSOPHY

In addition to the necessary preparation in Mineralogy proper, a candidate for admission to Mineralogy as a Major must possess an adequate knowledge of the cognate sciences-Chemistry, Physics, and Geology

The thesis submitted for the degree must indicate that the candidate has made a distinct contribution to the knowledge of his subject -43

COURSES OF INSTRUCTION

1—Systematic Mineralogy A course of twenty-five hours lectures and twenty-five hours laboratory Professor Parsons

2—Morphological Crystallography A course of twenty-five lectures
Professor Walker

3—Blowpipe Analysis and Determinative Mineralogy Seventy-five hours laboratory Professor Thomson

4—Determinative Mineralogy Fifty hours laboratory in continuation of No $\,3\,$

of No. 3

5—Practical Crystallography

Seventy-five hours crystal measurement, drawing, projection, etc

Professor Parsons

6—Physical Mineralogy A course of twenty-five lectures and twenty-five hours laboratory Professor Walker and Assistants

7-Petrography Twenty-five hours lectures and laboratory

| | Protessor Walker. |
|--|------------------------|
| 8-Advanced Petrography. Twenty-five lectu | ıres Professor Walker. |
| 9-Petrography Fifty hours laboratory | Professor Walker |
| 10-History of Mineralogy Twenty-five lectu | res Professor Walker |
| 11-Optical Mineralogy One hundred hours | Professor Walker |
| 12-Mineralography Fifty hours | Professor Thomson |

The Minors offered by this department are not available for candidates taking Mineralogy as a Major For such candidates the following Minors are recommended

Geology A, or Geology B, or Geology C

Chemistry C, or Chemistry E

The following groups of courses constitute Minors in this department
Mineralogy A—Courses 1, 2, 3, 4 and 6

Mineralogy B-Courses 1, 2, 5, 6, 9 and 12

Mineralogy 6—Courses 1, 2, 5, 6, 9 and 12 Mineralogy C—Courses 1, 2, 6, 7, 8, 9 and 12

Mineralogy C-Courses 1, 2, 0, 7, 8, 9 and 1

It is assumed that the candidate possesses a general acquaintance with the subject before entering on his studies as outlined above.

HYGIENE AND PREVENTIVE MEDICINE

DEGREE OF MASTER OF ARTS

A student who is proceeding to the degree of Master of Arts in accordance with the general regulations must consult the Head of the Department in reference to the selection of suitable courses of study

DEGREE OF DOCTOR OF PHILOSOPHY

Candidates for the degree of Doctor of Philosophy in this Department are required to submit a thesis, which constitutes a distinct contribution to the knowledge of the subject. The work required will be that necessary for the preparation of the thesis and a study of literature cognate to the subject under investigation

The following Major Divisions leading to the degree are offered

Hygiene Preventive Medicine

Candidates taking their Major in this department are recommended to select their minors from the Departments of

Physiology Biochemistry Biology Chemistry Zymology Physics

COURSES OF INSTRUCTION

- 1 Hygiene and Preventive Medicine-42 lectures and demonstrations
- 2 Advanced Public Health Bacteriology and Immunology-Laboratory course of about 250 hours
 - 8 Sanstary Chemistry-Laboratory course of about 72 hours
 - 4. Vital Statistics-Elementary laboratory course

HOUSEHOLD SCIENCE

DECREE OF MASTER OF ARTS

Candidates for this degree are accepted under the general regulations.

Courses of Instruction

- 1 Economics of the Household-Lectures and discussions two hours a week
- 2 An Advanced Course in Economics of the Household-Reading and discussions
 - 3 Dietetics-Lectures and laboratory work
 - 4 Dietotherably-Lectures, laboratory work and discussions
 - 5 Household Science Seminar-One hour a week



DEPARTMENT OF SOCIAL SERVICE

THE DEPARTMENT OF SOCIAL SERVICE

In 1914 the University of Toronto established, in its Department of Social Service, the first university training school in Canada for social workers, and in 1920 it founded the first university chair of Social Science

- The Department, in planning its courses, has in view the following kinds of men and women, assuming a fair degree of maturity and education
- 1 Those intending to make social service a life work
- 2 Those already doing some form of social work, but desiring more knowledge, either in their own or some related subject, or in the general setting of social service
- 3 Volunteer workers wishing to increase their effectiveness, and understand the problems with which they come in contact
- 4 Those desirous of exercising their trusteeship on committees of social agencies, or administrative boards
- 5 Those wishing to know more about the problems of the community to which they owe the responsibility of citizenship

GENERAL STATEMENT

- A The Diploma Course is planned in the belief that a thorough training for any kind of social work must be based on the study both of the whole social organization, and of individual and family problems. It is highly desirable that the student should gain a working knowledge of the leading forms of social service, in whatever form his future work may le
- B Part-time Students Every encouragement is given to students who are only able to give part of their time, most of the classes are open to them on consultation with the staff, though field work cannot be provided Part-time study as found specially valuable for volunteer or part-time workers, board members, missionaires on furlought, probation, deaconess, and other students who can combine some work in this Department with the major subjects of their training.

THE DIPLOMA COURSE

The certificate formerly given on one year's course has been discontunued and the Diploma Course is now covered in two years. Intending applicants are advised to arrange a personal interview with the Director in June or September and as a preparation for this the following guidance as to qualifications is given.

ADMISSION

Full-time students will be admitted on the following qualifications

- 1 Graduation from university or college This, though not essential, is the most desirable preparation for entrance, both from the point of view of the work itself, and for eventual leadership in social service
- Graduates may be given evemption from lectures in certain first year subjects, if they have taken them in their undergraduate course, they will be required to take the final examinations, unless they have been admitted to more advanced courses
- 2 Matriculation is the minimum entrance requirement. The Department is open to consider applications from non-matriculants, but only if their experience has been educationally (not necessarily academically) more than equal to matriculation. Wherever possible, those who intend to train for social service should at least complete their matriculation.
- 3 Applicants with previous experience of social work will have special consideration, if they show sufficient general training to be able successfully to handle the work, and if their experience has been such as to give reasonable warrant of their fitness for the vocation.
 - 4 Only in special cases will students be admitted over 35 or under 21
- (a) Applicants over the age limit will be admitted only if their social experience and prospects of successful training are satisfactory
- (b) Intending applicants under the limit are urged to spend one or more years in university work; giving voluntary service in settlements or clubs. The Department will gladly assist, if desired, in the choice of courses, looking to the time when students leaving school intending to train for social work (but not to follow a degree course), will take two years of selected courses in the University, thus completing with the Diploma a carefully planned 4 years of university education.
- 5 The full time work of the second year is open to those who have completed the requirements of the first year, or who have taken its equivalent in an accepted institution elsewhere
- 6 Intending applicants who wish to take advantage of the interval before entering can be advised as to reading or practice, such preliminary work is always an advantage
- 7 Application forms may be obtained from the Secretary, to whom they should be returned as soon as possible
- 8 All full-time students are admitted on probation Any student who is, in the opinion of the staff, very unlikely to succeed in social work, will be advised to withdraw

PROGRAMME OF DIPLOMA COURSE

The two years' work leading to the Diploma includes courses on the fundamentals of social secince and on the principles and methods of social work. In addition to this students spend two days weekly in super-

vised Field work and are required to do one month's continuous Field work in the long vacation between the first and second years. The courses are as follows.

First Year Second Year

Social Economics Social Evolution
Psychology Social Psychology
Social Ethics Social Economics

Legislation Social Economics

Social Economics
Social Economics

Hygiene and Public Health Social Ethics
Community Organization Case Work Seminar
Social Case Work
Psychiatry

Case Work Methods Industrial Legislation
The Community and the Child Field Work Conferences

The Community and the Child Field Work Conferences

ELECTIVES

Two electives are to be chosen in each year in consultation with the staff and with special relation to Field Work

Recreation and Playground Work

Problems of Rural Life Work with Boys Settlement Work

Invenile Court Proceedings

FIELD WORK

The development of social work in Toronto is increasing the opportunities for Field Work. At the present time many of the city agencies co-operate with the Department by providing supervised field work for students, while many other agencies and institutions co-operate by providing scope for observation and study.

In the first year the students, in consultation with the Director of Field Work, choose between the two general fields of family case work and community work. The stipulation, however, is made that a prescribed portion of the field work of either the first or second year must be in case work, unless the student has had such expenience previous to entering the course. Students whose experience warrants at are given a choice of specialized forms of work in the second year.

Candidates for the Diploma spend a minimum of four half days weekly in field work, and in addition are required to do one month of continuous work between the first and second years

RANKING FOR DIPLOMA CREDITS

In Written Work the pass mark is 60% on the total of all papers and 50% on each paper

First Year students may be conditioned in two subjects if their general average is 60% or over

Second Year students may be conditioned in two subjects if their general average is 70% or over

In Field Work students are classified A, B, C, and D In the first year

"C" standing, with the indication of better work, will be accepted In the second year Field Work standing of "B" grade is required

COURSES OF INSTRUCTION

FIRST YEAR

1 SOCIAL ECONOMICS

A course on the elementary principles of economics, values, utility, wealth individual and national, the relation of wealth to welfare, competitive and anti-competitive forces, followed by certain applications to the problems of the wage-system and its alternatives, trade-unionism, unemployment, women in industry, juvenile labour, conditions of industrial work, and the distribution of wealth and poverty

PROFESSOR MACIVER

2 PSYCHOLOGY

The meaning, point of view and methods of psychology Consciousness and the unconscious The aspects of mental development (a) sensation and association of ideas, (b) habit and instinct, (c) emotion and sentiment Mental conflict and character

MISS BANHAM

3 Social Ethics

The course will deal with the basal conceptions in Ethics, and their application to the problems of personal conduct and social relations. The basis of morals in human nature, the influences of heredity and environment, standards, motives, and sanctions of conduct, moral education, the solver of morals in community life.

PROFESSOR ROBINSON

4 HYGIENE AND PUBLIC HEALTH

A lecture course dealing with the principles of Public Hygiens, including a discussion of preventable diseases and preventable deaths. The comminicable diseases are classified and their modes of infection and methods of control, elucidated Community control of Tuberculons, Venereal Diseases and Infant Mortality are emphasized Industrial Hygiene, Vital Statistics and the activities of governmental and voluntary health promoting agencies are considered

PROFESSOR FRASER

5 COMMUNITY ORGANIZATION

The nature and development of social forms, associations and institutions, within community. The extension and development of community life. Its focal points home, school, church, club, union. The organization of industry, of philanthropy Experiments in social organization, the community centre, the health centre, the "city unit", the garden city, etc

PROFESSOR DALR

6 SOCIAL CASE WORK

Social Backgrounds The English Poor Law, the effects of the Industrial Revolution, the Charity Organization movement, modern ideals of case-work, principles and methods, interpretation and diagnosis as the hasis of treatment

MR STAPLEFORD

7 CASE WORK METHODS Individual and family maladjustments and case-work treatment

studied through the medium of case records This course is closely related to field work and a written study based on field work experience is a requisite for Diploma Credit

Mr STAPLEFORD

8 THE COMMUNITY AND THE CHILD

The development of principles and methods of child welfare, including the study of legislation. Preventive measures in relation to the normal child, the dependent, defective, delinquent and neglected child Modern accepted standards in child welfare

MR RRYCE

9 FIELD WORK CONFERENCE

Relation of Field Work to lectures Consideration of current events in social work. Special weekly assignments and related reading. Receiving students' written and verbal reports. Discussions arising out of field work expenence

Miss McGrrgor

SECOND VEAR

10 SOCIAL EVOLUTION

Primitive society types and stages Family, clan, tribe and nation The evolution of institutions The various modes of competition and co-operation. Various conceptions of the state and society, with special reference to contemporary discussions and experiments in reconstruction The psychological bases of social evolution the instincts in society.

self-realization and repression, personality and community, the individual and his environment, adaptation and maladiustment

PROFESSOR DALK

II SOCIAL PSYCHOLOGY

Man in society the herd instinct-suggestion, sympathy, imitation Work and fatigue, play and recreation Adolescence, abnormality, delinquency, and functional mental disorders Education and re-education

12 Social Economics

Acourse dealing with the Industrial Revolution, tracing the development of modern capitalism, the factory system, associations of capital and of labour, industrial legislation, and explaining in general the social and political reactions of modern industrial chances

13 SOCIAL ETHICS

The ethical development of society, and the relation of the individual to it, nature of social progress and the forces controlling it, the relation of the individual to the state, and the grounds of civic obligation, modern social conditions and problems in their ethical associas.

PROFESSOR ROBINSON

14 CASE DISCUSSION SEMINAR

The case work method with special reference to child welfare The study of records illustrating principles and methods of care for dependent, neglected and delinquent children Child caring institutions and their evolution. In this course a thesis based on field work experience is required of Dioloma candidate.

MR STAPLEFORD

15 PSYCHIATRY

Definitions of fallacious sense perceptions, such as hallucinations, illusions, delusions, etc. Symptoms, cause and treatment of mental diseases Mental deficiency, epilepsy, heredity Clinical demonstrations and examinations. History and case taking Relations of social work to resvchiatry.

DR E K CLARKE

16 INDUSTRIAL LEGISLATION

Modern tendencies in the industrial order State-help and self-help Canadian movements The principle of minimum standards, in wages, hours and working conditions Development of social insurance throughout the world Unemployment Industrial casualities Sickness Old see The framing of laws Their administration

PROFESSOR MACMILLAN

ELECTIVE (See page 660)

17 RECREATION AND PLAYGROUND WORK

The playground and recreation centre movement, history, organization and administration. The playground supervisor Community organization and recreation. Mental, moral and physical value of recreation Part of the course will be devoted to the practice and teaching of organized games, folk dancing and musical games, suitable for both adults and children.

Miss Honggins

18 PROBLEMS OF RURAL LIFE

A course deagned to show the important relationship between country and city life. The purpose amed at is to discuss the symptoms, causes and suggested remedies for rural uncest as evinced in rural migration and other phenomens of country life. The work of various agencies in dealing with country life will be outlined, and a constructive programme for rural community buildings supposed to the country life will be considered as the control of the country life will be outlined, and a constructive programme for rural community buildings supposed to

A study, based upon an investigation of individual boys, of the

MR. MACLARRY

19 SOCIETY AND THE BOY

effects of our social institutions on boy life. The home, church and Sunday school, public school, social and industrial conditions, recreational facilities. Students taking this as part of a full-time Boys' Work course will be in charge of actual groups or clubs of boys.

De Haveren

20 BOY BEHAVIOUR AND METHODS OF BOYS' WORK

(a) The physical, mental, social and religious development of the boy through the various stages of life

(b) Plans and programmes of work

Dr. Hayward

21 SETTLEMENTS

The history of the settlement movement, the nature of the work undertaken by settlements and the results which they accomplish Plan of organization and the departments which insully develop, e.g., social, educational, religious, medical, etc. Value of club work. Adaptability of settlements to different distorts and conditions. Application of their principles to rural and urban centres and to community contres of various kinds.

MRS PARKER

22 JUVENILE COURT PROCEEDINGS

History of the Juvenile Court and Probation, the personnel of the Court, the departments and how each functions, the procedure in court cases, the meaning of Probation, anjaination of Acts 220A and 242A of the Criminal Code, Deserted Weyes and Children's Maintenance, Act, and certain sections of the Children's Protection Act and the Juvenile Delinquent Act, the law of evidence and court extouster.

FEES

The tuition fee for the Diploma course is \$45 for each year. This fee is payable as follows PLEASE NOTE CAREFULLY

\$40 in advance, to the Bursar of the University, Simcoe Hall

55 in advance, to the Secretary of the Department (this fee is set apart towards the purchase of instructional material)

The \$40 may be paid by instalments of \$20 payable in October and \$21 payable in January

After October 31st, a penalty of \$1 per month will be imposed until the whole amount is plaid. In the case of payment by instalments the same rule as to penalty will apply. A student will not be admitted to any of the University lectures or laboratories who is in arrears for his fees.

Part-time students pay to the Bursar \$5 for each subject, and to the Secretary of the Department \$2 irrespective of the number of subjects taken

THE SOCIAL SERVICE BUILDING

Is at the South East Entrance to the University Grounds, on the north said of College Street; just west of University Arenne Its Library, through the generosity of the McCormick Estate, possesses a good collection of books, reports, perordicals, and bulletins on social subjects. The use of the library and reading room is evended to social worker and other interested readers, on payment of the departmental fee of SI. The staff welcomes enquiries for information on social matters, and does its best to meet them.

INFORMATION

For further information address The Department of Social Service, University of Toronto. Those who are within reach will find a personal consultation at the office desirable.





This new Department began its work in September 1920, and is a school in which graduate nurses may obtain training for public health nuising. We are thus helping to prepare a new occupational group called into existence by the emphasis now being put upon organized health work in all civilized countries.

Extensive public health programmes are being formulated in every Province of the Dominion of Canada, programmes set forth by many agencies both state and voluntary, but all alke in that they include work which is to be carried on by nurses. It is, therefore, imperative that facilities for the training of such nurses should be provided in this country in Canada it also been assumed that the usual three years hospital framing is a pre-requisite for a public health nurse, but, at the same time, it is realized that that hospital training alone cannot equip the nurse for this task. She must add to it some specific training for this highly specialized branch of work. Of necessity, the pioneers have had to train an the slow school of experience, for there was no other training available, but that is no longer necessary as the University now offers this year of special training to graduate nurses who was to prepare for the public health field or graduate nurses who was to prepare for the public health field.

The public health nurse, in conjunction with the public health doctor, is directing her energies to the teaching of health and the prevention of disease. Both nurse and doctor are being trained to work back from suchness and physical defect to a study of it heir causes and thence to a study of the means of prevention, in order that they may teach, and may apply in the community, those means of prevention. The nurse is usually the connecting his between the public health administrators and the people whom he would reach with his health teaching and health legislation. Her work he is not the home, the school, the factory and the clinic.

The establishment of the Department of Public Health Nursing in the University was made possible in 1920 through the generous assistance of the Ontario Branch of the Canadian Red Cross Society, Which organization undertook to meet the exponse of the new Department for a period of three years In 1923, full responsibility for the Department was assumed by the University

OPPORTUNITIES FOR THE NURSE IN PUBLIC HEALTH WORK The developments in this work during the last few years have been so

remarkable that we would emphasive the opportunities which it offers to well trained nurses. The school nurse is increasingly in demand for both town and country schools, and the same demand is growing for the community nurse who, usually as a member of the local Health Ghree's staff, will carry on various forms of health work. Perhaps the most frequent to service asked from the community nurse is in connection with the work of the school of which were consistently in different localities.

There are also many teaching and evecutive positions open to nurse but these positions all demand a very highly qualified woman. General education, technical training and personality are all of such importance of that there are as yet few women prepared to meet the demands of this ever widening field. This is a piace of work which offers unlounded opportunities for intesting and valuable service, and University course has much to offer to the student who wishes to present for it.

ENTRANCE REQUIREMENTS

- 1 Applications for admission will be considered from the following classes of students
 - (a) The student who has obtained complete credit for Pass Matriculation
 - (b) The student who submits certificates other than those of Ontario which have been recognized by the University as equivalent in value to Pass Matriculation
 - (c) The student of mature age who has not complete Pass Matriculation or its equivalent. Such a student must submit with her application official statements with reference to her secondary and professional education.
- 2 In addition, all applicants must present evidence of certain professional training in nursing as follows nurses from countries or states where registration is available must be eligible for registration, nurses from countries or states where registration is not available must submit a record of their hospital training for special consideration.
- $3\,$ Students must be not more than 35 years of age when entering the Department
- 4 Exceptions to the above rulings may be made in favour of nurses who have been engaged in public health nursing for two years or more
- 5 Preference will be given to applicants who have the broadest preliminary education and to early applicants Only fifty students can be accented in this class

PART TIME STUDENTS

Nurses wishing to take the full course over a prolonged period may, under certain conditions, register for selected lecture courses in one year, and complete the work in a second year

Nurses may register as occasional students for any one or more of the lecture courses in the regular curriculum if the class be not already over-crowded. If such occasional students meet the entrance standard of the Department, credit will be allowed for the work that they cover

GENERAL INFORMATION

Application forms may be obtained by writing to the Secretary, the Department of Public Health Nursing, University of Toronto

Nurses destring admission to the training course, but uncertain as to their eligibility, should write personally to the Department for further information, addressing the Secretary II possible a personal interview will be arranged The Office of the Department at No 1 Queen's Park, is open during the summer months

Applicants should understand that this course demands their full time for the whole of the academic year, and that it is quite impossible to take the full course and do any other professional work at the same time.

It is a difficult matter to arrange this course to include all that is destrable in such a short time. The University and the City of Toronto have so much to offer to the keen student that she will have to choose wisely in order to keep her work within reasonable bounds. The Director will have special office hours for consultation with the students in order that all may have helo and advice when they need it.

Applicants are also warned that the demands of this course are such that only those in good physical health can do the work. In addition, it should be understood that the future work of a public health nurse is likely to be of an ardious nature, and that a nurse who is not in good condition physically cannot hope to meet the recuirements of this field

STUDENTS WITH PREVIOUS PUBLIC HEALTH EXPERIENCE

It appears that nurses who have already been engaged in public health work are now seeking the special training which was not a valiable in the past. If such students enter the Department, special care will be taken in planning their practical work. No student will be required to do field work which she has already overed under statisticatory conditions. She will receive credit for that, and as far as time and opportunity allow, specially selected work will be arranged to take its place.

This information applies to nurses who have been working with a

FEES

The tuition fee for the regular full time course is \$60 if paid in October After October a penalty of \$100 a month will be imposed until the whole amount is earl

A fee of \$100 must be paid by all students for the use of the Department Library at No 8 Oueen's Park

The fees for part time students will be

For a course in any one subject for the Session For a one term course (15 hours)

\$5 00 \$3 00

EXPENSES

There is no University residence for the students of this Department Board and lodging may be obtained in the vicinity of the College buildings from \$10.00 per week upwards

The students must be prepared to meet a small expenditure for cardare while doing practical work

Text books may be bought at the University Book Room Copies of all prescribed text books will be kept in the University Library

SCHOLARSHIPS

A number of scholarships are available for the students in this Department during the year 1924-1925

The Ontario Red Cross is offering one scholarship of \$350 00 Nurses interested in that offer should write to the office of that Society, 410 Sherbourne Street, Toronto

The Victorian Order of Nurses is offering a small number of scholarships of \$400.00 each. These are only open to nurses undertaking to work with the Order after completing the course. For further information applicants should write to the Chief Superintendent, Victorian Order of Nurses, Jack-son Building, Ottawa.

A few Nurses' Alumna Associations have also offered scholarships open to their own members

DIPLOMA AND EXAMINATIONS

A Diploma will be granted to all students who have completed the required work of the Department. Each student will be required (1) to do satisfactory class work throughout the year, (2) to receive a setufactory report upon her practical work, and (3) to make the required pass mark upon the final examinations of the Department

Supplemental examinations in the work of this Department will be held in September it necessary

BUILDINGS

The offices of the Department are located in the building occupied by the Department of Medicine at No 1 Queen's Park The students are sharing the use of the lecture rooms, reading rooms, and library in the Social Service Building at No 8 Queen's Park

LIBRARY

The general Library of the University is contained in a separate building situated on the East side of the campus

The Department of Social Service has, in its own building, a valuable branch library, the use of which has been extended to the Public Health Nursing students

For the convenience of the students certain of the prescribed text books, magazines, and pamphlets belonging to the Department of Public Health Nursing are housed in the reading rooms of the Department of Social Service

The Public Library of Toronto is situated at the corner of St George and College Sts, about three minutes walk from the University buildings Any student may have the free use of its books, it is only necessary to have a card of recommendation signed by a Toronto householder

PHYSICAL TRAINING

Classes in physical training for the Women students of the University are given at the Household Science Building. These include gymnasum and swimming instruction. The students of the Department of Public Health Nursing are admitted to those classes upon payment of the usual fee of four dollars.

EXTENSION COURSES

I it is evpocted that a short Extension Course, two to three weeks in length, will be arranged annually for nurses with previous experience or training in public health work. The next course of that type will probably be arranged for January, 1925. Only a small registration fee is required for admission to that work, and no special entrance standard beyond the professional qualifications stated above. No certificates are swarded.

The content of the Extension Courses will vary according to the demands of the applicants. It is hoped in this way to provide pioneer workers and early graduates of this Department with an opportunity for keeping their work up to date.

II It is possible during the College year to arrange a course of weekly lectures upon some one subject of interest to the public health nurse, if the demand for any special subject be sufficiently strong During the Session 1923-24 a course of eight lectures on Diet in Health and in Disease was given Any such work provided during the Session 1924-25 will depend upon the demand for it.

Inquiries about these courses may be addressed to the Secretary of the Department of Public Health Nursing, University of Toronto

CURRICULUM FOR THE DIPLOMA OF PUBLIC HEALTH NURSING

The Department offers to its students a general training course in Public Health Nursing, its theory and practice I its hoped that to prepare nurse to serve effectively in any public health organization, whether the work be administered under a provincial or local Health Department, a provincial or local Health Department, a provincial or local Health Association.

The work of the student is divided into two parts (1) Theoretical—consisting of lecture courses and class work, and (2) Practical work, which in such courses is commonly called field work

Students will be expected to complete satisfactorily the required term work of the course before being allowed to write the final examination

LECTURE AND LABORATORY COURSES

These courses fall into two groups

- I Major subjects which are required of all students
- II Short courses The selection from this group must be made in conference with the Director The decision will be based upon the work covered previously in the hospital training school. At least three of these subjects must be included in each student's programme

I

1 Public Health Nursing

Miss Russell, Miss Cowan, and Special Lecturers

Lectures, excursions, prescribed reading and conferences. The course deals with the organization and administration of public health nursing, special fields, principles, methods, and technique. Six of the special branches of this work, viz, Child Hygerine, School Nariang, Tuberculosis Nirang, Venereal Disease Nursing, Industrial Nursing, and Hospital Social Services are dealt: with in some detail by special lecturers he lecturer in each case being a nurse who has specialized in the work of that particular field.

2 Preventive Medicine and Hygiene (including Sanitary Engineering)

a Lecture Course

| DR R McClenahan | Protessor Gillespie | Dr J Grant Cunningham | Dr J Grant Cunning

Aims of Preventive Medicine, brief historical review of the development of the subject to the present time.

Preventable diseases and preventable deaths, volume and kind of present mortality and morbidaty. Classification of communicable diseases. Incidence, etiology, modes of transmission and methods of control of communicable diseases. Methods of dealing with special public health problems, such as maternal and infant mortality, tuberculosis, veneral diseases, etc., problem of the degenerative diseases and cancer. Industrial hygene, occupational diseases, workman's compensation. Public health entres and clinica. Vital statistics, public health education and publicity Public health organization and administration. Sanitary engineering problems, community and home sanitation.

b Laboratory Course Elementary Bacteriology

PROFESSOR FRASER
MISS M MAITLAND

3 Psychology

Miss K M Banham

The meaning, point of view and methods of psychology Laws governing human behaviour Consciousness and the unconscious The aspects of mental development (a) sensation and association of ideas, (b) habit and instinct, (c) emotion and sentiment Mental conflict and character

4 Methods in Health Teaching

Miss Russell

In connection with this subject certain practice teaching is required from each student

5 Social Work—Principles and Practice

Mr F. N STAPLEFORD

A brief survey of social disabilities, and the modern methods adopted for their prevention and treatment, with a study of the principles governing these methods. The case method of dealing with problems of social disability. Various types of social agency, the co-ordination of these agencies.

6 Nutrition and Dietetics

MISS A L LAIRD

The course includes a discussion of the essentials of an adequate diet, the nutritive values of common food stuffs, food costs as compared with food values, the planning of dietary budgets for individual and family groups with special reference to economic and social conditions

II.

1 Medicine a review course consisting of lectures and clinics at the Out-patients' Departments of the general hospitals and of the Hospital for Sick Children

a Paediatrics and Infant Hygiene

DR ALAN BROWN

b Venereal Diseases

DR GORDON BATES DR J H ELLIOTT

ι Tuberculosis and other Chest Diseases

DR GORDON GALLIE

d Obstetrics

s Communicable Diseases In this case the teaching will be given in connection DR BEVERLEY HANNAH with befulded clinics

2 Oral Hygiene

DR WALLACE SECCOMBE

A short lecture course, illustrated with charts and lantern, covering the more important dental problems as they affect the nurse. The subject is approached particularly from the preventive side, and includes development and distetic influences, proper use and care of the teeth, mastication and toilet of the mouth. The diseases of the teeth and surrounding itssues, and the relation of these to general health, are discussed, along with simple remedies for the related of pain.

3 Mental Hygiene

DR ERIC CLARKE

The course covers Mental Hygene procedure in the community, in the schools, and in hospital treatment, the history of mental disorders and the nature of mental disease and defect, the various types of which are dealt with, showing the course, symptoms, diagnosis and treatment Lantern lectures are included in the series Chinical work is arranged at the psychiatric chinnoi of the Toronto General Hospital

4 Community and School Hygiene

DR J T PHAIR

a School Medical Inspection and School Hygiene.

b Rural School Problems and their Health Application

5 Social Economies

Professor MacIver

This course will consist of an introduction to some practical economic problems bearing directly upon social welfase such as, changes in the cost of living and in standards of life, labour organization, methods of arbitration and concilation, unemployment and its remedies, social insurance against unemployment, seckness, invalidity and accident, workness from comments on the manimum wage.

PRACTICAL WORK

- 1 The practical work will be arranged as follows
 - (a) One month's work starting September 2nd No student may enter upon the lecture work of the year unless at least one month of practical work has been covered Students may receive credit for previous expenence in public health nursing (ie with a State Health Department or a Visiting Nurse Association), if it satisfy our requirements In that case the practical work in September will not be required
 - (b) Six weeks' work between the middle of April and the 1st of June
 - (c) The year's study will necessarily include some participation in the practice of public health nursing during the whole lecture period, but no routine district work will be carried by the student during that lecture period, i.e. from October to March.
- 2 The above periods of practical work may be arranged with the following Toronto organizations and workers

The Department of Public Health

The Victorian Order of Nurses

The Social Service Department of the Toronto General Hospital

The Neighbourhood Workers Association (an Association doing family welfare work)

The National Tuberculosis Association (at the Gage Institute)

Industrial nurses

- 3 Some rural and small town practical training has become available So far such opportunities have been very limited, but they will probably be more extensive in the future. Such experience may be open to the student who is prepared for a small amount of extra expense for travelling and living while out of town. Every effort is made to reduce this expense to a minimum. When the student can be placed with a country nigre working on the outlastria of Toronto, this extra cost will be obviated.
 - 4 Weekly conferences are held in connection with this work
- 5 Written studies of the more extensive pieces of public health work in which the student engages must be submitted These reports form one of the final tests for the Diploma

- 6 Students are asked to give very careful consideration to the following information concerning practical work
 - (a) The Department is dependent upon the courtesy of these health organizations for this work for its students, therefore any rules made by the organizations must be observed without questioning
 - (b) Difficulties of arrangement in such work may make slightly unusual demands upon the time of the student
 - (c) No street uniform is worn by the students, but certain dress regulations have been imposed by the organizations providing field work, and must be observed by the student while doing field work
 - A tailored cloth suit or long coat must be worn, and with that a wash blouse or wash dress
 - (ii) For the work with the Victorian Order of Nurses it will be necessary for each student to provide herself with a full-length apron to be worn while in the sick room. A linen laboratory coat is very suitable for this purpose
 - (m) No fur coats, fur-iremmed coats, or fur collars may be worn
 - (d) Boston bags are provided for the use of students while on duty
 - (e) No exceptions can be made to the rules, and all students entering the Department must sign a statement that they are prepared to observe both the letter and the spirit thereof
- 7 Students will be required to cover the full period of practical work If, for any reason, the work is interrupted, the period will be prolonged to cover the number of days lost.
- 8 No student will be required to repeat practical work which she has already covered under satisfactory conditions. She will receive credit for that, and, as far as time and opportunity allow, special work will be arranged.

TEXT BOOKS

The following is a partial list of the text books recommended for the use of the students in this Department

Book of Home Nursing-Campbell

Care and Feeding of Children-Holt

Chemistry of Food and Nutrition-Sherman

Children Astray-Drucker and Hexter

Dietetics for Nurses-Proudfit

Economics for the General Reader-Clay

Essentials of Medicine-Emerson

Essentials of Psychology-Pillsbury

Evolution of Public Health Nursing-Brainard

Feeding the Family—Rose

Food Products-Sherman

Food Products—Snerman

Handbook for School Nurses-Kelly and Bradshaw

Healthy Child from Two to Seven-McCarthy

History of Nursing-Nutting and Dock

Home and Community Hygiene-Broadhurst

Industrial Nursing-Wright

Life of Florence Nightingale-Cook

Mental Conflicts and Misconduct-Healy

Mental Diseases-Gulick

Mental Hygiene and the Public Health Nurse-Macdonald

New Public Health-Hill

Normal Child-Brown

Nursing in Diseases of Children-Leo-Wolf

Obstetrical Nursing—Von Blarcom

Organization of Public Health Nursing-Brainard

Outline of the Practice of Preventive Medicine-Newman

Personal Hygiene Applied-Williams

Practice of Preventive Medicine-FitzGerald

Preventive Medicine and Hygiene-Rosenau

Principles and Practice of Nursing-Harmer

Primer of Hygiene—Ritchie and Caldwell Primer of Physiology—Ritchie

Printer of Physiology—Rite

Primer of Sanitation-Ritchie

Prospective Mother-Slemons

Psychology for Students of Education-Gates

Public Health Nursing-Gardner

Sanitation for Public Health Nurses—Hill

Short History of Nursing-Dock and Stewart

Social Work-Cabot

Social Work-Devine

Social Work in Hospitals-Cannon

Study of Canadian Immigration-Smith

Syphilis and the Public Health-Vedder

Talks to Teachers on Psychology and Life's Ideals-James

Textbook of Simple Nursing Procedure for High Schools—Pope What is Social Case Work—Richmond





DEGREE OF BACHELOR OF LAWS .

The following curriculum for the degree of Bachelor of Laws will remain in force until June 30th, 1929, after which date a revised curriculum, a draft of which appears on page 8, will become fully operative

Candidates for the degree of LL B must have

- (a) produced satisfactory certificates of conduct. (b) matriculated in the Faculty of Law.
- (c) passed the prescribed examinations,
- (d) attained the age of twenty-one years

Any person having the degree of Bachelor of Arts or of Master of Arts in the University of Toronto, or any person having the degree of Bachelor of Arts or of Master of Arts of an approved University, or any person who has been admitted to the Bar by the Law Society of Upper Canada, may enter the Department of Law at the Third Year of the course of study in that Department, but prior to presenting himself for the final examination in the course of the degree of LL B he shall pass in addition to the exammations of the Third and Fourth Years in the Department of Law, the following examinations in the Faculty of Arts, viz -

- 1 ENGLISH CONSTITUTIONAL HISTORY HOROUT examinations of the Second and Third Years (History, 2f, p 108, 3e, p 104)
- 2 ENGLISH CONSTITUTIONAL LAW Honour examination of the Third Year (Law 3c, p. 113) 3 COLONIAL CONSTITUTIONAL LAW Honour examination of the Third
- Year (Law, 3d, p 113) 4 ROMAN LAW Honour examination of the Third Year (Law 3b, p.
- 113) 5 HISTORY OF ENGLISH LAW Honour examination of the Third Year
- (Law 3a, p 112) 6 POLITICAL ECONOMY Honour examination of the Second Year
- (Political Economy, 2a, 2b, p. 108) 7 JURISPRUDENCE Honour examination of the Fourth Year (Law,
- 4c. v 114) 8 INTERNATIONAL LAW Honour examination of the Fourth Vear
- (Law. 4d. p. 114) 9 CANADIAN CONSTITUTIONAL HISTORY Honour examination of the
- Fourth Year (History, 4f, p 105) 10 CANADIAN CONSTITUTIONAL LAW Honour examination of the Fourth Year (Law, 4a, p 113)
- 11 FEDERAL INSTITUTIONS Honour examination of the Fourth Year (Law, 4b, p 113)

The references in Nos 1-11 are to the Calendar of the Faculty of Arts, 1024-1025

Any person who has been admitted as a student-at-law by the Law Society of Upper Canada and who is a candidate for the Second Year Examination as required by the Law Society may enter the Department of Law at the Third Year, but the results of his examination of the Third Year will be withheld pending the announcement by the Law Society of the results of the Second Year Examination Such a candidate present himself for examination in the prescribed Arts subjects during the Third and Fourth Years of the Law course

Undergraduates in the Faculty of Arts, who intend to proceed to the degree of LL B, may take these examinations either during their Arts course or during the Third and Fourth Years of their Law course

MATRICULATION

The Matriculation examination in the Faculty of Law shall be identical with the examination of the First Year in the Undergraduate Pass Course English, Latin, one of Greek, French, German, Hebrew, Italian or Spanish, a second optional language or Science, Algebra and Geometry, Ancient History or Trisonometry or Religious Knowledge

FIRST VEAR

The subjects of examination in the First Year in the Faculty of Law are as follows —

- (a) Subjects of the Pass Course in the Faculty of Arts in which Pass standing will be required —
- 1 English of the Third Year
- 2, 3 Any two of the following subjects of the Second Year, viz Latin, Greek, French, German, Hebrew, Physics, Zoology, Botany, Chemistry, Geology of which one must be a language
 - 4 History of the Second Year
 - 5 Ethics of the Third Year
 - 6 History of Philosophy of the Third Year
- (b) Subjects of the Political Science Course, in which Honour standing will be required
 - 1 English Constitutional History of the Second and Third Years
 - 2 English and Colonial Constitutional Law of the Third Year
- 3 Political Economy of the Third Year 4 History of English Law of the Third Year
- 5 Roman Law of the Third Year

SECOND YEAR

The subjects of examination in the Second Year in the Faculty of Law shall be as follows, viz —

(a) Subjects of the Pass Course in the Faculty of Arts in which Pass standing will be required —

- 1 English of the Fourth Year
- 2, 3 Any two of the following languages of the Third Year -Latir Greek, French, German, Hebrew
- (b) Subjects of the Political Science Course, in which Honour standin will be required -
 - 1 Modern History of the Third Year
 - 2 Canadian Constitutional History of the Fourth Year
 - 3 Public Finance of the Fourth Year
 - 4 Political Philosophy of the Fourth Year
 - 5 Jurisprudence of the Fourth Year 6 Public International Law of the Fourth Year
 - 7 Federal Constitutional Law of the Fourth Year

THIRD YEAR

| 1 | Common Law | Broom's Common Lav |
|---|-------------------|--------------------|
| • | Dersonal Property | Williams |

2 Personal Property

3 History of the Law of Real Digby Property

Anson 4 Contracts

Salmond, English ed 5 Law of Torts Pollock

(Maitland's Lectures on Equity 6 Equity Smith's Principles of Equity

Tustinian, Institutes 3 18-4 5 7 Roman Law of Obligationes Gaius, Institutes 3 88-3 225 Mackintosh, Roman Law of Sale

Clement

8 Canadian Constitutional Law

Additional subjects for candidates for the American Law Book Com pany's Prize -

Palmer's Company Law Robson and Hugg's Leading Case on Company Law 9 The Law of Companies

10 Municipal Corporation Law The Powers of Municipal Corpora tions to make contracts, and the manner in which they may contract, th general principles governing the exercise of these powers to pass by-laws and their powers to create or establish highways and their liabilities with respect to the same when created The Municipal Act (RSO 1914 c 192), Meredith and Wilkinson's or Robson and Hugg's Municipa Manual, and Robson and Hugg's Leading Cases, so far as they relate to the named subjects

Each candidate for the American Law Book Company's Prize must pre sent a thesis upon some subject relating to either of the additional subject. on or before the 31st of March in the year in which he presents himself fo examination in his Third Year in the Faculty of Law The subject of the thesis for the Prize for 1925 is "The advantages and disadvantages from a legal point of view and otherwise of the government of cities by Commission under special Act, as compared with the present system under the Municipal Act".

Cormen Vern

| Fourth Year | | | | |
|-------------|---|---|--|--|
| 1 2 | Medical Jurisprudence Law of Real Property | Reese Armour's Real Property (Chalmers' Sale of Goods, with | | |
| 3 | Commercial Law | the Ontario Act of 1920 Falconbridge's Banking and Bills of Exchange, Book II | | |
| 4 | Conflict of Laws | Dicey's Conflict of Laws, or Westlake's Private Interna- tional Law | | |
| 5 | Law of Companies | Masten and Fraser's Canadian Law of Companies Robson and Hugg's Leading Cases on Company Law | | |
| 6 | Construction and Operation Statutes | of Crase's Hardcastle on Statutes | | |
| 7 | Criminal Law | Harris's Criminal Law or Kenny's Outline of Criminal Law Stephen's General View of the | | |
| 8 | Domestic Relations | Criminal Law Eversley, Parts I, 2 and 3 | | |

8 Domestic Relations Eversley, Parts 1, 2 and 3 Each candidate for the degree of LL B must present a thesis satisctory to the examiners in Law, upon some subject embraced in the curri-

factory to the examiners in Law, upon some subject embinaced in the curriculum, on or before the 31st March in the year in which he presents himself for examination in his Fourth Year in the Faculty of Law, or on or before the said date in any subsequent year. The subject of the thesis wall be presented by the Senate, and will be amoniuned at least eight months before the date upon which it is due. An oral examination on the subject of the thesis may be required at the option of the examiners in Law. Candidates for the degree may defer presenting the thesis until a subsequent annual examination, in which case the fee for examination shall be \$100.

-

| \$10 00 |
|---------|
| 10 00 |
| 10 00 |
| 20 00 |
| 20 00 |
| |

A candidate will not be admitted to an examination unless he has paid all the fees due from him A candidate who fails to pay his examination ices on or before the fiftcenth of March-the last day for receiving fees prior to the May examination-must pay an additional fee of one dollar

A candidate who fails to send his application for examination by the day appointed for receiving such applications must pay an additional fee of one dollar

EXAMINATIONS

The examinations will take place in the month of May

Every student who purposes presenting himself at any examination is required to send to the Registrar, not later than March 15th, a paper (according to a printed form which will be provided on application) stating his standing, and whether he is a candidate for Honours or otherwise

Candidates who at any examination have failed in not more than two subjects may, with the consent of the Senate, present themselves for examination in such subjects at the next ensuing Supplemental examinations

Undergraduates below the Fourth Year in the Faculty of Law, who have been rejected or who have been prevented from attending the Annual examinations in May by sickness or other cause beyond their control, may, with the consent of the Senate, present themselves in Sentember, at the time of the Supplemental examinations in Arts

Candidates in the Faculty of Law shall not be required to pass an examination on those subjects in which they have already passed the required examination in the University of Toronto, or an equivalent examination in the course of studies prescribed by the Law Society of Upper Canada Graduates in any Honour Course in the Faculty of Arts of this University shall not be required to pass an examination in Economics and in English Constitutional History

Candidates who have taken the course at the Law School are required to present to the Registrar a certificate from the Secretary of the Law Society, showing the subjects in the Law School curriculum on which the candidate has passed examinations at the said school, and such certificates shall entitle the candidate to exemption from examination on the subjects mentioned in said certificate, where said subjects are included in the University corneulum in Law

SUBJECT OF THESIS

The following is the subject for Thesis for candidates for LL B for the year 1925, viz -

"A comparison of the rules of Justinian's Digest, I 3, with English Law on the subject of the Interpretation and Abrogation of Statutes, and an estimate of the English debt to Roman Law on this matter"

(The attention of candidates is especially directed to the rules established in the time of Coke They are also reminded that Monro's unfinished translation of the Digest includes the first book)

REVISED CHERICITUM

Commencing with the Session 1925-1926, a revised curriculum for the LLB degree will become operative, the main features of which are outlined in the following sections

- 1 A candidate for the degree of Bachelor of Laws (LL B) shall have the degree of Bachelor of Arts or Master of Arts of the University of Toronto, or of an approved University, or similarly have completed the second year in the Faculty of Arts, or have completed the First Year at Oscoole Hall
- 2 The course for the degree shall include provision for examinations of the First, Second and Third Years. The subjects of the first examination are taken from existing courses in the Faculty of Arts (see page 3 of this curriculum), but no candidate will be permuted to present himself or any portion of the second examination until be has completed the course for the First Year. The subjects of the Second and Third Years are substantially those of the Third and Fourth Years of the present course, with developments within the subser of the Civil Law.
- 3 Any person who has been admitted to the Bar by the Law Society of Upper Canada may present himself for examination in the subjects of the Second and Third Years at one are available.

DEGREE OF MASTER OF LAWS

Candidates for the said Degree must have been admitted to the Degree of Bachelor of Laws, must be of the standing of one year from admission to the Degree of Bachelor of Laws, must have presented a thesis satisfactory to the examiners in Law, and to the special examiners of such thesis appointed by the Senate, on some branch of law or of the history or philosophy of law, and must have passed the following examinations in the Sentity of Law, viz. —

- 1 History of English Law Pollock and Maitland, History of English Law
- 2 English Constitutional Law Gnest, History of the English Constitution, Select Cases in Constitutional Law—Broom, Constitutional Law, Part II (Relation of the Subject to the Executive), and Part III (Relation of the Subject to Parliament), Todd, Parliamentary Government in England
- 3 Canadian Constitutional Law Lefroy on Legislative Power in Canada, and subsequent reported cases on the subject
- 4 Criminal Law Stephen, History of the Criminal Law (omitting chapters on History of Procedure, Summary Jurisdiction, and Indian Criminal Law)

- 5 International Law Oppenheim, International Law, Third Edition Constitution of the League of Nations The British Orders in Council, 1914-1917, relating to the Declaration of London and to maritime retaliation, together with the related documents of other governments Stowell and Munro. International Cases.
- 6 Jurisprudence Salmond, Jurisprudence; Bryce, Studies in Jurisprudence, Hall, Foreign Jurisdiction of the British Crown
- 7 Roman Law Gaius and Ulpian, edition Muirhead, Roby's Roman Private Law in the times of Cicero and the Antonines
- 8 Civil Code of Lower Canada and Roman Dutch Law Text of the Civil Code, Lee, Roman Dutch Law

Candidates shall have the option of taking the examination in two groups—subjects 1 to 4 and subjects 5 to 8—the groups being taken in any years after the necessary LLB standing has been attained. The thesis may be presented in the year of the second examination or in any subsequent year. A candidate taking the eight subjects together, and failing, shall be awarded standing in the subjects in which he obtains the standards set for passing provided he secures the required percentage in not less than four of the eight subjects, the thesis being returned not read

The thesis must be sent to the Registrar in typewritten or printed form, not later than the thirty-first day of March

The Senate may appoint special examiners for the whole or any part of the work prescribed for examinations for said degree

The fee for the said degree shall be thirty dollars (\$30 00)

CERTIFICATES OF HONOUR

Certificates of Honour will be given at each examination to those students who have been placed in Honours

The fee for such certificates shall be one dollar

PRIZES

The Edward Thompson Company's Praze of the first twenty-five volumes of the American and English Annotated Cases will be awarded to that undergraduate of First Year standing who as a candidate for the examination of the Second Year submits the best these on some branch of the law of Personal Property, of Contracts or of Trusts The subject for 1925 is "A study of the law of Turists in relation to personal property".

The Canada Law Book Company's Prize of a set of Halsbury's Laws of England will be awarded to that graduate of this University who having completed his course in the department of Political Science, and having passed the First Year examination at Osgoode Hall, has written a thesis on

some portion of the work prescribed in the first examination at Osgoode Hall The subject for 1925 is "A comparative study of the constitutions of Canada and Australia"

The award of these two praces shall be made to the candidate who obtains the hughest aggregate number of marks on all the subjects of the second examination and also the hughest number of marks for the thousand is recommended for the Prace by the regular and special examines in Law. The these shall be sent to the Registrar, in typewritten or pointed from, not later than the thirty-first of Ortobre, sweal by the candidate's

Law The thesis shall be sent to the Registrar, in typewritten or printed form, not later than the thirty-first of October, agend by the candidate's pseudorym, and shall be submitted to the special examiners for adjudication and report to the Senate. The special examiners shall, before the day of examination, fix the maximum number of marks who the mission belowed, and the minimum number of marks who must be obtained on the thesis in determining the ment and value of the thesis, the examiners shall attach special importance to the literary qualities, and to the amount of original thought, research and investigation, which have been shown by the candidate in his treatment of the subsect of the thesis.

The American Law Book Company's Prize of a complete set of their Cyclopation of Law and Procedure will be awarded to the successful candidate in the Third Year who shall have obtained the highest aggregate number of maris in all the subjects of examination prescribed in the curriculum for said year, and also in the additional subjects of the Law of Companies and Municipal Law, prescribed for the said Prize, including a thesis upon some subject relating to either of those two additional subjects, and who shall be recommended for said prize by the examiners in Law and by the special examiners appointed to examine the thesis submitted by such candidates

The Edward Thompson Company's Prize of the American and English Encyclopedia of I leading and Practice will be awarded to the candidates for LL B who shall have received the highest and second highest aggregate number of marks at the examination for that degree in the Faculty of Law in all the subjects prescribed for the Fourth Year, including the thesis upon a legal subject, required of such andidates, and who shall be recommended for the Prizes by the examiners in Law, and the special examiners appointed to examine the thesis submitted by such candidates.

The American Law Book Company's Prize of a complete set of their Cyclopadus of Law and Procedure will be awarded to the successful candidate for LL M who shall have obtained the highest aggregate number of marks at the examination in subjects 5 to 8 for the said degree, including a thesis upon some branch of Law or of the history of philosophy of Law, and who shall be recommended for the said prize by the examiners in Law and by the special examiners to be appointed by the Senite to examine

STANDARDS

The standing for passing shall in the case of Arts subjects be fifty per cent, and in the case of the Law subjects be fifty per cent on each subject of an examination, with an average of sixty per cent on the whole. The standard for Honours shall be an average of seventy-five per cent of the marks assigned to all the subjects of the Year.

WORKS OF REFERENCE

American and English Annotated Cases, American and English Encyclopædia of Law, Cyclopædia of Law and Procedure, Encyclopædia of Pleadings and Practice, Halsbury's Laws of England, the English and Empire Digest

CURRICULA AND REGULATIONS

FOR DEGREES AND DIPLOMAS IN

AGRICULTURE

DENTISTRY PHARMACY PHYSICAL TRAINING

VETERINARY SCIENCE

CURRICULUM IN DENTISTRY

DEGREE OF DOCTOR OF DENTAL SURGERY

MATRICULATION 1925

A candidate for admission to the course in Dentistry will be entitled to the status of an undergraduate who possesses one of the following qualifications

- 1 A certificate issued by the Ontario University Matriculation Board, of standing as for Pass Matriculation in the subjects of English, History, Mathematics, Latin, Experimental Science (Physics and Chemistry) and one of Greek, German, French, Italian, or Spanish (preferably French). It will be noted that the proposal has been abandoned for the present to include in the entrance requirements certain subjects of Honour Matriculation in addition to complete Pass Matriculation.
- 2 A certificate of matriculation in the Faculty of Arts of an approved
- 3 A certificate accepted by the General Medical Council of Great Britain for registration as a student of Medicine or Dentistry
- f 4 A degree in Arts (not being an honorary degree) from some recognized University

GENERAL

A certificate of standing as an unconditioned student of a University in the United States, may be accepted, but it must be on the basis of a complete four years' course in a High School accredited by the said University

Such a certificate must include Latin for at least two years

Certificates other than those previously mentioned will be considered in determining the status of applicants as undergraduates

A candidate must hold the full entrance qualifications before he can be admitted

ADMISSION TO ADVANCED STANDING

A candidate who has completed the Predental Year in a Provincial University in Canada may be admitted to the Second Year in the Department of Dentistry, provided that the course which he has a taken at sixeh. University includes the following subjects. English, French, Biology, Physics, Chemistry, and also provided that such standing has been secured after attendance at the University concerned

FIRST YEAR

English, French, Drawing, Modelling, Chemistry, Physics, Biology, Shop Work, Hygiene, Ethics, Comparative Dental Anatomy, Physical Training

SECOND VEAR

Chemistry, Metallurgy, Histology, Anatomy, Dental Anatomy, Prosthetic Dentistry, Crown and Bridge, Operative Dentistry, Physical Training

THIRD YEAR

Chemistry, Metallurgy, Physics, Histology, Physiology, Materia Medica and Pharmacology, Dental Anatomy, Prosthetic Dentistry, Crown and Bridge, Operative Dentistry, Physical Training

Fourth Year

Bacterology and Pathology, Prostheto Dentistry, Crown and Bridge, Operative Dentistry, Preventive Dentistry, Cromma, Periodonita and Prophylams, Electro-Therapeutics and Randology, Orthodonita, Esodonita and Anaesthesia, Ethics and Jurisprudence, History of Dentistry, Dental Economics, Clinical Dentity, Physical Training

FIFTH VEAR

Bacteriology and Pathology, Applied Anatony, Prosthetic Dentistry, Crown and Bridge, Operative Dentistry, Preventive Dentistry, Ceramics Periodontia and Prophylaus, Electro-Therapeutics and Radiology, Orthodontia, Medicine, Surgery, Evodontia and Anaesthesia, Dental Economics, Clinical Dentistry, Physical Training.

EXAMINATIONS AND STANDARDS

The standard for pass for all years and subjects and all sections or parts of subjects shall be 50 per cent of possible marks

No student will be permitted to enter a higher year without having first completed all the subjects of the lower year A student who fails to meet this requirement must repeat the lower year

All examinations are conducted under the joint direction of the Board and of the University. The term work done by the student in each subject may count as high as 50 per cent of the examination, and is reported by the instructor in charge of each subject. The report of the examiners may count as high as 50 per cent of the examination.

SUPPLEMENTAL EXAMINATIONS

Supplemental examinations are held at convenient times for removing conditions. Applications, together with the fee to write or take a supplemental examination, must be in the hands of the Superintendent of the Royal College of Dental Surgeons at least fifteen days before the date set for the examination.

CURRICULUM IN PHARMACY

DEGREE OF BACHELOR OF PHARMACY

MATRICULATION

Candidates for the degree of Bachelor of Pharmacy must either -

- Possess a degree in Arts (not an Honorary degree) from some recognized University, or
- 2 Have already matriculated in the Faculty of Arts in this or some other University in Canada, or
- 3 Be matriculants in the College of Physicians and Surgeons of Ontario

Provided always that all candidates registered as apprentices of the Ontario College of Pharmacy, or who have received the diploma of the College of Pharmacy up to the first day of July, A D 1898, shall be admitted as matriculants in the Department of Pharmacy on payment of the registration fee of five dollars

REGULATIONS

Undergraduates (candidates for the degree) resident in the Province of Ontario must have compiled with all the requirements prescribed from time to time by the Council of the Ontario College of Pharmacy for admission to examination for a diploma licensing to practise Pharmacy in Ontario, and must have received from the Registrar of the Ontario College of Pharmacy a certificate of having passed the final examination of that College

Candidates for the degree, not resident in Ontario, must have devoted at least four years (not being engaged in any other business) to the study of Pharmacy, being apprenticed during that time to a regularly qualified Pharmaceutical Chemes, must have attended the full course of lectures embracing all the subjects of the curriculum, the length of each course being not less than that required from time to time by the Council at the Ontario College of Pharmacy, and including practical work of some College of Pharmacy recognized by this University, the last of which courses must be taken at the Ontario College of Pharmacy recognized by this University, the last of which courses must be taken at the Ontario College of Pharmacy.

All candidates who have, prior to August 15th, 1892, received the diploma of the Ontario College of Pharmacy will not be required to conform to the above, but will be allowed their degree on passing the examination on the subjects hereinafter given

Notice is hereby given that after July 1st, 1926, the course for the degree of Bachelor of Pharmacy shall extend over a period of at least two years

\$5.00

EXAMINATIONS

Candidates for the degree must pass an examination to be held in the month of May of each year—hour and date of commencing to be hereafter given—must present to the Registrar satisfactory certificates covering all the requirements relating to undergraduates as given above, and of having passed the final examination of the Ontario College of Pharmery.

The subjects of the examination shall be as follows -

- 1 Botany and Microscopy
- 2 Theory and Practice of Chemistry and Toxicology
- 8 Materia Medica, including Posology and Pharmacognosy

For matriculation or registration of matriculation

4 Theory and Practice of Pharmacy, including interpretation of Pre-

These examinations shall be partly written, partly oral and partly practical

No candidate shall be considered as having passed the examination who has not obtained fifty per cent, of the marks allotted, nor shall a candidate be considered as having passed in any subject who has not obtained at least forty per cent of the marks allotted to such subject

Fers

| For annual examination (each) | 10 00 |
|--------------------------------|-------|
| For each practical examination | 0 50 |
| For the degree of Phm B | 10 00 |

No fee shall be charged for transference from any Faculty of this University to the Department of Pharmacy

CURRICULUM IN AGRICULTURE

DEGREE OF BACHELOR OF THE SCIENCE OF

For many years students successfully completing the Two Year Course at the Ontain Agricultureal College for the Associate Diploma, who obtained 50 per cent general proficency and 60 per cent average in English subjects, were admitted to Third and Fourth Year Courses of study leading to the Degree of Bachelor of the Scence of Agriculture Commencing with the work of the First Year in the Session 1902-01 the Two Year Course for the Associate Diploma and the Four Year Course for the Degree of B.S. he became enturely separate and distinct Courses Applications for admission to the Course leading to the Degree will be considered on the bases of "Qualifications for Admission" stated below Students who have taken at least one year of the Course as it formerly evested, shall complete their Course under the did resultations.

QUALIFICATIONS FOR ADMISSION

- All candidates for admission to the Four Year Course leading to the Degree of BSA
 - (a) Must be eighteen years of age on or before the opening day of college
- (b) Must produce satisfactory evidence as to moral character and physical ability
- (c) Must produce certificate of having spent at least one year at work on a farm, and must have a practical knowledge of ordinary farm operations, such as harnessing and driving horses, plowing, harrowing, drilling, etc. When it is thought necessary, this knowledge will be tested by an examination at entrance or at any subsequent date
- (d) Must at the request of the college physician submit to vaccination unless certificate of successful vaccination within two years is furnished
- (e) Must pay in advance tuition fees and laboratory charges and make the required deposits on account of board, contingencies and other fees
- (f) Must produce with application for entrance Ontario Pass Matriculation Certificate in Arts or Science except as defined in sub-sections 1 and 2 below
 - (1) Credits of candidates whose education has been obtained outside of the Province of Ontario will be considered by special committee of the college staff
 - (2) Candidates of mature age and extensive farm experience, but without Matriculation, may obtain admission to the Course leading to the degree by fulfilling the following conditions (i) the completion

of the two year Associate Course, obtaining 40 per cent in each subject of the second year with an average of 50 per cent together with 60 per cent in English, (ii) the completion of an Intermediate Year covering academic subjects exclusively, including English. Mathematics, Natural Sciences, and History On the completion of the Intermediate Year such candidates will enter the Third Year of the Course leading to the degree

All applications for admission ad euroden statum must be accompanied by official certificates of standing from the institutions where previous work has been done

A student taking the Agriculture Option must have at least three years' practical farm experience before entering the Third Year

A student taking the Dairy Option must have spent one season at practical work in each of three out of the following five creamery, condensery, powder milk or city milk plant. A three months' Dairy School Course may be substituted for a season's experience in any one of the commercial plants

FIDER VEAD

Agriculture-Animal Husbandry, Field Husbandry, Dairy Husbandry, Horticulture, Apiculture, Poultry, Agricultural Economics, Farm Mechanics

Bacteriology

Botany

Chemistry

English Physics

Zoology

SECOND YEAR

Agriculture-Animal Husbandry, Field Husbandry, Dairy Husbandry

Hortsculture, Augusture, Poultry, Farm Mechanics Bacteriology

Botany

Chemistry

English

Entomology Genetics

Physics.

INTERMEDIATE VEAR

(To be taken by students who have satisfactorily completed the first two years of the Associate Diploma. Course and who wish to qualify for admission to the degree course)

Bacteriology, Botany Chemistry, English, Entomology, Genetics History, Mathematics, Physics

THIRD AND FOURTH YEARS

One of the following Options

- 1 General Agriculture
 - (a) Anımal Husbandry
 - (b) Agronomy
- 2 Agricultural Engineering
- 3 Apiculture
- 4 Bacteriology
- 5 Botany
- 6 Chemistry
- 7 Dairy
- 8 Entomology
- 9 Horticulture

Note—Students entering the Third Year shall select their option not later than the 1st of April in the Second or Intermediate Years, after consultation with the head of the department concerned, and shall then notify the President of the College of their selection, and its approval by the Head above referred to

A student who has not been granted complete First Year standing may not enter upon any work of the Third Year, nor a student who has not been granted complete Second Year standing upon any work of the Fourth Year.

THESIS

Each Fourth Year student is required to prepare a Thesis on some branch of department of the work in his special course

The subject or each thesis must be approved by the Professor in whose Department is taken, and must be submitted to the had of the Department of English who is convener of the Thesis Committee on or before the first of April of the Thud Year All theses must be handed to the Registrar on or before the first of April of the Fourth Year No student whose thesis is anisatisfactory will be permitted to write on the Fourth Year examinations. The thesis must be based on original work It must be typewritten on letter-saved paper (38/x 11 lineless) of good quality, and no corrections in writing must appear on the typewritten page. There must be a margin of one and a half inches on the left sade of each page, and one inch on the other three sides, to allow for binding. Maps, charts, photographis, etc., must have one men margin on the left sade.

FXAMINATIONS

FIRST, SECOND AND THIRD YEARS

All First and Second Year students are required to pass two regular examinations during each year, one in December on the work of the fall term, and one in April on the work of the winter term, including classroom and laboratory work, experiments, etc. Third Year final examinations will be held in April

FINAL FOR THE DEGREE

Examinations for the degree of BSA are held annually, at the close of the Fourth Year, in the month of May

SUPPLEMENTAL

Candidates for supplemental examinations must notify the Registrar in writing, at least two weeks before the dates fixed in the Calendar

FEES

Before writing the final examinations for the Degree of BSA each candidate is required to pay the following fees to the Registrar of the College for transmission to the Bursar of the University—

| Examination Fee | 810 00 |
|---|-----------------------|
| Degree Fee | 10 00 |
| The fee for a supplemental examination in the Final | Year is \$10, payable |

to the Bursar of the University

STANDARDS FOR PASS AND HONOURS IN THE FINAL ENAMINATIONS

| First Class Honours | 75% |
|----------------------|--------|
| Second Class Honours | 60-74% |
| Third Class Honours | 40-59% |
| Pass Standing | 40% |

Each student must obtain an average of 50% on all major subjects and 50% in term work

CURRICULUM IN PHYSICAL TRAINING

DIPLOMA IN PHYSICAL TRAINING FOR WOMEN

A diploma will be granted to women students of the University who shall have completed to the satisfaction of the Senate the following courses in Physical Training —

FIRST YEAR

THEORY

EIBMENTARY PRINSIOLOGY—A course of twenty lectures which will include a general account of the Anatomy of the human body, and a discussion of the elementary principles of physiology

PERSONAL HAGIENE-A course of ten lectures

PRACTICE

A course of three hours weekly in the gymnasium and swimming pool including general Gymnastics, Apparatus, Games, Dancing, and Swimming

SECOND VEAR

THEORY

FIRST AID—Fifteen lectures in First Aid Course of the St. John's Ambulance Association

KINESIOLOGY—A course of ten lectures

A course of four hours weekly in the Gymnasium and Swimming pool which will include General Gymnastics, Games, Dances, and Swimming

THIRD VEAD

THEORY

GENERAL HYGIENE-A course of 25 lectures

THEORY OF PHYSICAL EDUCATION and methods of teaching a course of 10 lectures

Physical

A course of five hours weekly in the Gymnasium and Swimming pool including advanced Gymnasius, Games, Dances, and Swimming—Practice Teaching and Life Saving

FOURTH YEAR

THEORY

PHYSIOLOGY OF EXERCISE-A course of ten lectures

ANTHROPOMETRY—A course of ten lectures
HISTORY OF PHYSICAL EDUCATION—A course of ten lectures

PRACTICE

A course of 5 hours weekly in the Gymnasium and Swimming pool including Advanced Gymnastics, Remedial Exercises, Games, Dances, Practice Teaching, Ornamental Swimming

CURRICULUM IN VETERINARY SCIENCE

DEGREE OF BACHELOR OF VETERINARY SCIENCE

The course leading to the Degree of Bachelor of Veterinary Science (BVSc), shall extend over a period of four academic years, of not less than seven months each

MATRICULATION

The standard adopted for the entrance requirement is based upon the successful completion, or the equivalent, of a high school course of four years in a Collegiate Institute. High School or Continuation School

Candidates for admission to the Course in Veterinary Science must therefore, submit either—

- 1 A Normal Entrance of Junior Matriculation Certificate of Ontario
- 2 A Certificate, equivalent in standard, of any Province of Canada, of any part of the British Empire, or of the United States of America
- 3 Certificates other than those mentioned will be considered by the Senate in determining the status of applicants as undergraduates
- 4 A Certificate of having passed a qualifying examination in English Composition, English Literature, British and Canadian History, Ancient History, Algebra, Geometry, Physics, and Chemistry, similar to the Normal Entrance examination of Ontario and represented in general by the Second Class Teacher's examinations of the Provinces of Canada.

To qualify for such a certificate candidates may present themselves at an examination centre in any Province of the Dominion at the time when the Department of Education of that Province holds its regular annual examinations, and at such other times and centres as may be approved by the Senate

ADMISSION TO ADVANCED STANDING

A student of a recognized veterinary college, or agricultural college, may be admitted to standing on conditions to be determined in each case by the Senate upon the report of the Ontario Veterinary College

CHRRICHLUM

Candidates for the Degree shall ordinarily complete the courses of instruction and examinations of the first, second and third years at the Ontario Veterinary College The subjects of instruction and examination for the fourth year are as follows

Veterinary Medicine and Surgery

Infectious and Contagious Diseases of Animals

Obstetrics and Hygiene of Breeding Animals

Veterinary Materia Medica and Therapeutics

Pathology

Bacteriology

Meat and Milk Hygiene

Veterinary Sanitary Service Laws and Regulations

Examinations at the end of the fourth year shall be conducted by examiners appointed by and under regulations approved by the Senate

The standard of passing shall be fifty per cent in each subject with an average of sixty per cent of the total number of marks assigned to the subjects

The first class honour standard is seventy-five per cent and the second class sixty per cent

Any student failing in not more than three of the above subjects may take supplementary examinations in these subjects, and upon passing the same shall be entitled to receive the Degree

Upon the successful passing of the examinations in the above subjects the students shall be entitled to receive the Degree of Bachelor of Veterinary Science (B V Sc)

DEGREE OF DOCTOR OF VETERINARY SCIENCE

The degree of Doctor of Veterinary Science is intended to be conferred under such conditions as will denote its receipt only by those distinguished for professional eminence

A candidate for this degree shall be a graduate in Veterinary Science (B V Sc) of the University of Toronto of at least three years' standing He must present a these embodying the results of an original investigation conducted by hinself on some subject approved by the Senate not later than the first of Ianuary

The thesis must be based upon either

- (a) The results of a special research
- (b) The results of professional experience in a designated field allied to the live stock industry

(c) The results of a special course of study extending over at least one year

In order to be qualified for admission to the degree at the Annual Commencement in June, the thesis must be in the hands of the Registrar of the University not later than the first of May

FRES

(Subject to change)

Members of the graduating class will require to pay a fee of \$10.00 for examinations and the degree of Bachelor of Veternary Stemes (B V Sc). This fee is to be paid to the Bursar of the University before writing the final examinations. The fee for the degree of Doctor of Veternary Science (D V Sc) shall be \$15.00, which shall be paid on presentation of this thesis for the said Decree



FEDERATED AND AFFILIATED COLLEGES



WYCLIFFF COLLEGE

Wycliffe College was founded in 1877 and incorporated in 1879. In 1885 it was affiliated with the University of Toronto, and federated in 1890 upon the proclamation of the Federation Act

Its object is the Theological training of candidates for the ininistry of the Church of England in Canada, and for the foreign missionary field

In the University and University College its students receive instruction in the prescribed subjects of the Arts Course, as preliminary to the special study of Theology The Theological course extends over a period of three years, and leads up to the degree of B D, and D D

Part of the first year of the Theological Course may be taken concurrently with the Arts work of the University by means of the Theological options, and by following the schedule laid down in the Calendar of the College

The first building of the College, was erected in 1882. The work is now carried on in the second building ejected in 1891, and added to in 1902, 1908, and in 1911, on the University Grounds and immediately adjoining the new Hart House. It contains rooms for 98 students, Convocation hall, lecture rooms, bibary, chapel, dining hall, etc.

Students are members of the Hart House, with its gymnasia and club rooms, and have all the privileges of the University

THE FACULTY

REV T R O'MEARA, D D, LL D, (Principal), Professor of Practical Theology, Homuletics and Pastoral Theology

REV DYSON HAGUE, M A. D.D. Professor of Laturness

REV W E TAYLOR, MA, PHD, Professor of Ecclesiastical History and Apploratics

REV E A McIntere, MA, DD, Professor of Systematic Theology REV C V Pilcher, MA, DD, Professor of Old Testament Literature and

Exercis

Rev B W Horan, M A, BD, Professor of New Testament Literature and

Exercise

JUIN D FALCONBRIDGE, ESQ, MA, LLB, Honorary Lecturer in Canon

MIRIAM W BROWN, Lecturer in Reading and Voice Culture

President and Chairman of the Council N W HOYLES, Esq. B A, KC, LL D.

Representatives on the University Senate

THE PRINCIPAL, N W HOYLES, ESQ, BA, KC, LL D

D FALCOABRIDGE, ESQ, MA, LL B, KC

Secretary to the Faculty
RLV W E TALLOR, MA. D D

Dean of Rendence
REV B W HORAN, MA, BD

Librarian
REV E A McIntyre, M.A. D D

Bursar and Registrar H MORTIMER, Esq. C A

KNOX COLLEGE

Knox College was established at Toronto in 1844, as a theological seminay in connection with the Synod of the Presbyterian Church of Canada (Free Church), which had been organized in the same year. In 1853 it was incorporated by Act of Parliament. In 1851, is consequence of the union of the Synod of the Free Church and that of the United Presbyterian Church, as the Synod of the Canada Presbyterian Church, Knox College and the Theological Institute of the United Presbyterian Synod were united Since the Union of 1875 Knox has been a College of the Presbyterian

After several changes of location the buildings on Snadina Avenue were erected in 1875 and were occupied until 1914 when the College moved to the beautiful new buildings facing on the University Lawn Knox College was affiliated with the University of Toronto in 1885, and federated in 1890, upon the proclamation of the Federation Act. In the University and University College such of its students as are not proceeding to a degree receive instruction during three sessions in English, Latin, Greek, History, Logic, Mathematics, Chemistry, Biology, Physics, Psychology, Mental and Moral Philosophy and Hebrew The Regular University Course leading to the degree of B.A. is the preparation expected of entrants in Theology The course in Theology extends over three years. In addition to the required course, a special course of study leads to the degree of B D A number of scholarships and prizes are offered for competition in each year Religious Knowledge options may be taken by students of the University in any year of their course, and Theological ontions taken in the Third and Fourth years may be counted as part of the regular course in Theology Courses of study in the New Testament are provided in Knox College for every year of the Undergraduate course, and may be taken as Religious Knowledge options for the University degree

The College is governed by "The Board of Management" Mr Thomas Bradshaw, Chairman, Rev R C Tibb, B A, Secretary, The Treasurer of the Presbyterian Church in Canada is the Treasurer of Knov College The "Board" consists of thirty-five members, appointed annually by the General Assembly of the Presbyterian Church in Canada

THE FACULTY

- REV ALFRED GANDIER, MA, DD, LLD, Principal and Professor of Homileites and Pastoral Theology, Christian Missions and the English
- REV T B KILPATRICK, DD, STD (Hart), Professor of Systematic
- Theology
 REV WILLIAM MANSON, MA, BA, (Oson), Professor of New Testament
 Literature and Baseesss
- REV RICHARD DAVIDSON, MA, PHD, DD, Professor of Old Testament Literature and Excesss
- REV JOHN T MCNEILL, M A , PR D , Professor of Church History
- REV HUGH MATHESON, LL B , Lib arian
- REV R C TIBB, B A . Secretary of Senate
- REV D M RAMSAY, D D, Tulor on New Testament Greek
- PROT PETER SANDIFORD, Ph D, Lecturer in Child Psychology and Pedagogy
- REV ALEXANDER MACMILLAN, D D, Lecturer on Hymnology and Church Musec

VICTORIA UNIVERSITY

FACULTY OF THEOLOGY

The Faculty of Theology in Victoria College was established in 1871 for the purpose of training candidates for the ministry of the Methodist Church Its classes and degrees have, however, always been open to candidates for the ministry in any Church, and are now open to members in good standing in any Christian Church

Instruction is provided in the various courses of study leading up to ordination in the Methodist Church, viz, the B D Course, the Course for Graduates in Arts, and the Course for Non-graduates An arrangement has been entered into with Knov College for a large measure of co-operation in the work of instruction

Undergraduates in Arts, whether candidates for the ministry or not, have the privilege of taking certain subjects in Theology as options in Religious Knowledge in the several years of their course, as indicated in this Calendar in the prescriptions of the Arts Courses

For further information as to courses of study, fees, honours, prizes, scholarships and regulations, see the Theological Calendar of Victoria College, or apply to the Rev Professor J F McLaughlin, B A, D D, Dean of the Faculty of Theology

THE FACULTY

- REV F H WALLACE, MA, DD, Professor Emerstus
- REV J F McLAUGHLIN, BA, DD, Professor of Old Testament Exeges and Interature
- REV R P BOWLES, M A, D D, LL D, Professor of Systematic Theology
- W B LANE, M A , PH D , Professor of Ethics and Didactics
- REV W H GREAVES, M A, Professor of Public Speaking REV A J JOHNSTON, B A, D D, Professor of Homiletics and Pastoral
 - Theology and of Church History
- REV J W MACMILLAN, BA, DD, Professor of Sociology
 REV J H MICHAEL, MA, Professor of New Testament Exegesss and
 - Literature
 REV W A POTTER, MA, BD, Associate Professor of Old Testament
 - Exegesis and Literature

 REV F W LANGFORD, BA, MRE, Associate Professor of Religious

 Pedagogy
 - Fedagogy
 W T Brown, M A, Ph D, Associate Professor of Ethics and Apologetics
 Rev F L Barner, M A, Ph D, Special Lectures in History of Preaching

SCHOOL OF DENTISTRY OF THE ROYAL COLLEGE OF DENTAL SURGEONS OF ONTARIO

The corporate name of the profession of Dentistry in the Province of Ontario is the Royal College of Dential Surgeons. The College was incorporated in 1868 with power to examine and issue license to practise Dentistry in the Province of Ontario. In 1875 the College established a School of Dentistry for the purpose of instructing students in their professional work.

THE FACULTY

ADMINISTRATIVE OFFICERS

WALLACE SELCOVER, L D S , D D S , W E WILLMOTT, L D S , D D S ,

Dean Secretary of Faculty

PROFESSORS

- G R ANDERSON, B A Sc, M A, Professor of Physics HAROLD KRITH BOX, L D S, D D S, PH D, Professor of Denial Pathology
- and Periodontia

 G. A. CLARKSON, M. B., Professor of Physiology, Hyelene and Medicine
- F J Conpos, L DS, D DS, Professor of History of Dentistry and Dental Economics
- I W CORAM, L DS, DDS, Professor of Dental Ceramics
- THOMAS CONLING, BA, LDS, DDS, Professor of Chemistry and Metallingy
 - W E CLUNER, L D S , D D S , Professor of Prosthetic Dintistry and Shop Technic
 - B O FIFE, L D S, D D S, Professor of Clinical Operative Dentistry
- JOSEPH S GRAMM, MB, MRCS, Professor of Histology, Batteriology and Pathology GGHume, LDS, DDS, Professor of Orthodonica
- ANDREW HUNTER, MA, BSc., MB, FRSC., Professor of Biological
- A D A MASON, L D S , D D S , Professor of Clinical Dentistry
- R G McLiughills, L D S , D D S , Professor of Dental Jurisprudence and Ethics
- D W PAUL, L D S , D D S , Professor of Anaesthesia, Exodontia
- F E RISDON, L DS, DDS, MB, Professor of Surgery

WALLACE SECCOMBE, LDS, DDS, Professor of Preventive Denissiry I AMES C WATT, M A, M D, Professor of Analomy

- A E WEBSTER, M D S. D D S. M D. Professor of Operative Dentistry. and Therabeutics
- W EARL WILLMOTT, LDS, DDS, Professor of Maleria Medica and Pharmacology

ASSOCIATE PROFESSORS.

- I H ANTE, L D S. D D.S. Associate Professor, Prosthetic Dentistry and Crown and Bridge
- J A BOTHWELL, LDS, DDS, Associate Professor, Clinical Dentistry
- G H CORAM, L D S. D D S. Associate Professor of Clauscal Dentistry
- E A GRANT, L D S , D D S , Associate Professor, Prosthelic Denissiry I W INGRAM, I. D.S., D.D.S., Associate Professor of Operative Dentistry
- NORMAN T MACLAURIN, M.B. Associate Professor of Bacteriology
- W E WILLMOTT, L D S . D D S . Associate Professor, Prosthetic Dentistry,

LECTURERS.

W BEATTY, R C A . Demonstrator on Art MISS M FOSTER, A O C A . Demonstrator on Modelling HERBERT S McKellar, BA, Lecturer in French H S PALMER, Assistant on Art EDWIN | PRATT. M A . B D . Pr D . Lecturer on English

INSTRUCTORS IN DRNTISTRY

- G L COLE, L D S , D D S , Prosthetic Denissiry
- C A CORRIGAN, L D S , D D S , Classician, Orthodontia
- I H DUFF, L D S , D D S , Clinician, Prosthetic Dentistry
- B. R. GARDINER, L. D.S., D.D.S., Clauscan, Annesthesia and Exodonica W T HOLMES, L D S . D D S . Operative Dentistry
- H A HOSKIN, LDS, DDS, Chinician, Patients' Examination
- W L HUCKL, LDS, DDS, Operatine Dentistry
- F S JARMAN, L D S. D D S. Clinician, Angesthesia and Evodonita
- C A KENNEDY, L D S , D D S , Clanacian, Orthodontsa
- I. F KRUEGER, L D S. D D S. Clanscian, Oberative Dentistry
- G V MORTON, L D S. D D S. Anaesthesia and Exodontia S M RICHARDSON, L. D. S., D. D. S., Operative Dentistry
- M SHELDON, L D S , D D S , Operative Dentistry
- W G Switzer, L D S . D D S . In Charge of Sensor Laboratory
- W G TRELFORD, L D S , D D S , Clinician, Periodontia

DEMONSTRATORS

G D BRIERL, L D S, D D S, Demonstrator, Operaine Denissity
R M BOA, L D S, D D S, Dentell Pathology
ABRAHAM BRODY, M A, M B, Demonstrator, Physiology
F W CLEMENT, M B, Demonstrator, Osteology and Anatomy
S S CROUGH, L D S, D D S, Demonstrator, Operative Denissity

L R DAVISON, L D S, D D S, Demonstrator, Physics R J GODFREY, L D S, D D S, Demonstrator, Prosthetic Dentistry H H HALLORAN, L D S, D D S, Demonstrator, Prosthetic Dentistry

H H HALLORAN, LDS, DDS, Demonstrator, Prosthetic Dentistry
Miss W C Riddle, BA, Demonstrator, Histology, Bacteriology and
Pathology
E M RIGSLY, Shop Technic

J L ROBINSON, M D, C M, Demonstrator, Osteology and Anatomy
H A Ross, L D S, D D S, Demonstrator, Operative Dentistry

J M SHELDON, L D S, D D S, Demonstrator, Operative Dentistry R R WALEER, L D S, D D S, Demonstrator, Prosthetic Dentistry

R S Woollatt, L D S, D D S, Demonstrator, Prosthetic Dentistry W J 1 WRIGHT, B A Sc, Physics

LIBRARIAN AND CURATOR OF MUSEUM C A KENNEDY, I D.S. D.D.S.

HONOLARY CLINICIANS

W B ANY, LDS, DDS
W L CHAIMERS, LDS, DDS
HAROLD CLARE, LDS, DDS
CLAS E PRAESON, LDS, DDS
IF ROSS, LDS, DDS
W C SWITH, LDS, DDS
N STEWART, IDS, DDS, Hamilton
A S THOMSON, LDS, DDS
C E SUTTO, LDS, DDS

The School of Dentistry of the Royal College of Dental Surgeons of Ontatio was affiliated with the University of Toronto in 1888, and shortly thereafter an examination for the degree of Doctor in Dental Surgery was instituted in the University See Curriculum in Dentistry elsewhere in this volume

ONTARIO COLLEGE OF PHARMACY

The Council of the College of Pharmacy, the beannally-elected governing body of the prencising pharmacists of the Province of Ontano, began in 1882 to give instruction in the various subjects necessary for license for druggists. The College Buildings, entuated in SI James' Square, was erected in 1884, and the Faculty reorganized and extensive additions made to the building in 1881. In the same year affiliation was entered into with the University of Toronto. For curriculum, see p. 716. For details as to laboratory and other courses, preliminary qualifications, etc., see Annual Announcement of the College, which may be had by addressing W. B. Graham, Registrati-Teasurer, Ontano College of Pharmacy, Toronto, Ontano

THE FACILITY

- CHARLES F HEEBNER, PH G, PHM B, F C I C, Dean, Professor of Theory and Practice of Pharmacy and Despensing, Director of the Pharmaceutical and Disbensive Laboratories
- JOHN T FOTHERINGHAM, BA, MDCM, Emeritus Professor of Materia
- GRAHAM CHAMBERS, BA, MB, Emerstus Professor of Chemistry
 GEORGE A EVANS, PHMB, FCIC, Emerstus Professor of Chemistry
- PAUL L SCOTT, M B, Professor of Biology
 R O HURST, PIIM B, Lecturer in Latin, Posology and Materia Medica
- ORVILLE P WATSON, PHM B, Lecturer in Lawn, resolvey and Materia intental Orville P Watson, Phm B, Lecturer in Chemistry and Physics, Director of the Chemistal Laboratory

ONTARIO AGRICULTURAL COLLEGE

1924-1925

ADMINISTRATIVE STAFF

J B REYNOLDS, M A, President S Springer, Bursar

A M PORTER, B.S A, Registrar

MARGARET I ODROSKIE, President's Secretary

R E BALCH, BSA, Dean of Residence ANNIE O HALLETT, Librarian

MARGARET M THOMPSON, BA, Assistant Librarian

GERTRUDE M HILBORN, Assistant Librarian PA

MRS K T FULLER, Superintendent, Maidonald Hall MRS K GALBRAITH, Matron

MISS C McKiel, Dielitian
D F Adams, Physical Director

FACULTY OF INSTRUCTION AND LABORATORY STAFF 1924-25

J B REYNOLDS, M A, President

H H DEAN, BSA, Professor of Dairy Husbandry

C A ZAVITZ, B S A, D Sc, Professor of Field Husbandry.
R HARCOURT, B S A, Professor of Chemistry

JOHN EVANS, Professor of Manual Training
W R GRAHAM, BSA, Professor of Poultry Husbandry

I E HOWITT, M S A , Professor of Botany

D H JONES, B S A, Professor of Bacteriology

O J STEVENSON, M A , D PAED , Professor of English

WADE TOULL, B S A , M S , Professor of Animal Husbandry W C BLACKWOOD, B A SC , Professor of Physics

F E MILLEN, B S A , Professor of Apaculture

A LEITCH, B S A, Professor of Farm Economics

OLIVE CRUIKSHANK, B A, Director of Home Economics L. Caesar, B A, B S A, Professor of Economic Entomology

A W BAKER, B S A , Professor of Entomology

H H LEDREW, BSA, Professor of Political Economy and Sociology

R D COLQUETTE, B S A, Professor of Marketing Economics F N Marcellus, B S A, Professor of Poultry Husbandry

A H MACLENNAN, BSA, Professor of Horticulture

I W MacArthur, M.A. Ph.D. Professor of Geneluce

W J SQUIRRELL, BSA, Associate Professor of Field Husbandry

- G H UNWIN, B S A . Associate Professor of English
- H L, FULMER, B S A . M A . Associate Professor of Chemistry
- T H LUND, B S A . Associate Professor of Bacteriology
- R E STONE, B Sc , PH D , Associate Professor of Botany
- I C STECKLEY, B S A . Associate Professor of Animal Husbandry
- R R GRAHAM, BA, BSA, Associate Professor of Physics
- A H TOMLINSON, B S A , Associate Professor of Horisculiure
- A L GIBSON, BSA, Associate Professor of Chemistry
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 - E W KENDALL, Specialist in Manual Training
 - R C MOFFATT, M A . Lecturer on Physics
 - F L Ferguson, B S A . Lecturer in Physics
 - G J SPENCER, B S A, Lecturer in Entomology
 - J COKE, B S A, Lecturer in Farm Economics
 - W H SPROULE, BSA, Lecturer on Dasry Husbands y
 - A DAVEY, B S A , Lecturer in Bacteriology
 - R G KNOX, B S A, Lecturer in Animal Husbandry
 - A C WHEATLEY, B A , Lecturer in Chemistry
 - E C McLean, M A , Lecturer in English
 - E E REILLY, B S A . Lecturer in Farm Economics
 - O McConkey, BSA, MS, Lecturer in Field Husbandry
 - D R SANDS, BSA, MS, Lecturer in Bolany
 - D A KIMBALL, BSA, Lectures an Hortsculture
 - TEAN RODDICK, Instructor in Domestic Science
 - BELLA MILLAR, Demonstrator in Danying S R CURZON, B S A . Demonstrator in Chemistry
 - KATHARINE B DOUGHTY, Demonstrator in Household Art
 - W G Evans, B S A , Demonstrator in Botany
 - J A FLOCK, B S A, Demonstrator in Entomology
 - S WATERMAN, B S A, Demonstrator in Chemistry
 - G L JARVIS, B S A, Demonstrator in Apsculture
 - G E RAITHBY, BSA, Demonstrator in Animal Husbandry
 - H A SMALLTTELD, B S A , M S , Demonstrator in Dairying FRANCIS MCNALLY, BS. Instructor in Normal Methods
 - T I McKinney, Instructor on Dairwing
 - IEAN C BRADLEY, Instructor in Laundry and Household Administration
 - MARGARET REID, B H Ec., Instructor in Household Management KATHLEEN K PEPLER, Demonstrator in Physical Training (Macdonald
 - Institute) R E BALCH, B S A , Instructor in English

RESEARCH STAFF

CHEMISTRY

- A L GIBSON, B S A, Dasry Chemistry
- S R CURZON, B S A, Food Investigation M. ALICE PURDY, Flour Testing
- S WATERMAN, B S A , Soil Investigation
- C A CLINE, B S A . Soil Investigation

FARM ECONOMICS

- H. W CLARK, BSA, Assistant Director of Surveys
- G W MICHAEL, B S A , Chief Field Supervisor

ENUMER ATORS

- W S Rowe
- W J FAIRWEATHER
- C W RILEY, BSA
- G H EDWARDS, B S A
- B HOODLESS, BSA

FIRED HESBANDRY

A W MASON, BSA, Assistant Experimentalist A E Whiteside, Plant Selection

HORTICULTURE

C C EIDT, BSA

POULTRY

- E S SNEDER, B S A , M S
- J F FRASER, BSA

EXTENSION STAFF

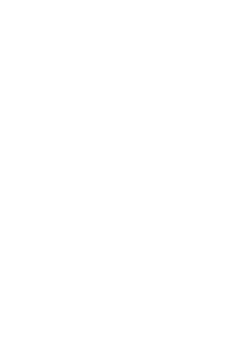
- LIONEL STEVENSON, B S A , M S , Director of Extension
- J F FRANCIS, B S A , Poultry Husbandry
- V C LOWELL, B S A, District Supervisor of Drawage W P Shorey, B S A, District Supervisor of Drawage
- F W Presing B S A , District Supervisor of Dramage F W Presing B S A . Assistant Vegetable Specialist

THE ONTARIO VETERINARY COLLEGE

In 1892, through the efforts of the late Hon Adam Fergusson of Woodbull, and the late George Buckland, Professor of Agraculture in the University of Toronto, Professor Andrew Smith, a graduate of the Edinburgh Vetranary College, was appointed to give instruction in Veterinary Studies in the Province of Upper Canada. The Veterinary College thus established was later taken over by the Government of the Province of Ontario and nfilliated with the University of Toronto, from which graduates of the College may receive the degree of Bachelor of Veterinary Science and Doctor of Veterinary Science See Curriculum in Veterinary Science seleswhere in this volume

COLLEGE STAFF AND SUBJECTS TAUGH1, 1923-24

- C D McGilvray, M D V, D V Sc, Contagious Diseases, Sanstary Service
- F TORRANCE, B A . D V Sc . Physiology, Hygiene
- I N PRINGLE, M R C V S . B V Sc . Sporadic Diseases, Physiology
- R A McIntosh, M D V, Obstetrus, Special Therapeutics
- W I R FOWLER, B V Sc., Sweerv, Materia Medica
- H D NELSON, D V Sc , Anatomy
- F W SCHOTIBLD, D V Sc., Pathology, Parasitology
- H E BATT, B V Sc , Histology, Meat Inspection
- R GWATKIN, D V Sc , Bacteriology, Milk Hygiene
- F C GRENSIDE, VS, Horsemanship
- I G HARVEY, B V Sc., Cansue Diseases
- GEO DREW, Jurisprudence
- R HARCOURT, BSA, Ontario Agricultural College, Chemistry
- W Toole, BSA, Ontario Agricultural College, Animal Husbandry
- J E Howitt, MSA, Ontario Agricultural College, Botany
- O J STEVENSON, M A, D PAED, Ontario Agricultural College, English and Public Speaking
- W C BLACKWOOD, B A Sc, Ontarso Agreeultural College, Physics A Leitch, B S A, Civics, Economics



APPENDIX

Appendix

REGISTER OF STUDENTS, 1923-1924

FACULTY OF ARTS

FIRST YEAR

C-University College, V-Victoria College, T-Trinity College,

4

| Name Home Address | Name Home Address |
|--|--|
| T Coleman, Miss L E Stoney Creek | Name Home Address C Emery, J A Stratford V Endecott Mass D Toronto |
| V Color I K Woodstook | C Emery, J A Stratford |
| V Coles, L K Woodstock V Collier, H B Toronto V Collies, J E Trenton C Collet, Miss G, V Cayuga | V Endscott, Miss D Toronto |
| V Conter, ri b 10ronto | C Evans, G S Toronto |
| v Collins, J.E. Trenton | C Evans, J F Toronto |
| C Collei, Miss G. V Cayuga | V Eventt, Miss C Toronto |
| C Comper, Miss D M St G | V Everitt, Miss I H Toronto |
| Bobca3 geon | |
| C Conn, J M Sarnia | C Farewell, C A Toronto |
| C Conn, J M Sarnia V Cook, I D A Simcor V Cooke, Miss E G C Coon, H E Peter bor ough | C Farquharson, D G |
| V Cooke, Miss E G Wolseley, Sask | Black River Jamaica |
| C Coon, H E Peterborough | |
| | T Farrell Miss I N Toronto |
| V Coun, F Toronto | C Faulde Muse I M Toronto |
| T Corrigan, Miss B M H Toronto | C Frances Miss A P Francis |
| C Cosens Miss E H Tournto | V Form More D F Department |
| V Cosh Miss A F Robourmen | V Fermore Mars F V Flore |
| C Coulton Muse E Tougete | M Farrell, Miss E P Niagara Falls T Farrell, Miss L M Toronto C Faulds, Miss L M C Favreau, Miss A P V Fenn, Miss B E V Ferguson, Miss E K C Reguson, F A Beeton |
| C Course Mars I A December | C Fine. A Toronto |
| C Cowle P A Western | C Fine, A Toronto |
| V Correct C F T Willuson | V Fisher, M C Woodville |
| v Cragg, C E J Robe, Japan | V Fleming, J P Toronto |
| V Coin, F Toronto C Cosens, Miss E H C Cosh, Miss A E C Coulter, Miss A E C Coyle, F A C Coyle, F A C Cragg, C B C Claw, W B C Cleech, Miss B I C Covens, Miss B I C Covens | C Fockler, E K Newmarket |
| C Creech, Miss E I Toronto | T Forrest, Miss M M Port Hope |
| | |
| C Creech, Miss E I Toronto T Creeggan, Miss M E Descronto M Cronin, Miss C A C Toronto | C Forsyth, J G Toronto V Forsythe, B C Uxbridge V Foster, Miss C L Waterloo |
| C Crozter, J K Lethbridge, Alta | V Foster, Miss C L Waterloo |
| C Dale, Miss M R St Maiy's | V Foster, Miss C L Waterloo C Fraser, Miss F E H Toronto |
| C Dale, S H Toronto | C Fraser, G R Lorne |
| M Groffin, Miss C A C Toronto C Tozont, J K Lethbridge, Alta S C Dale, Mass M R S Many's C Dale, Miss M R S Many's C Daly, F S t L London C Dandeneau, Miss A F Toronto C Davete, Miss A F Toronto C de Beauregard, Miss E T Toronto C de Beauregard, Miss E T Toronto C de Beauregard, Miss D T Toronto C de Denton, F M T Toronto C Toronto C Toronto C Toronto C Toronto C Manuel C Toronto C Tor | C Fraser, G R Lorne C Fraser, Miss J I Pembroke C Fraser, R O Hawkesbury |
| C Dandeneau, Miss D B Toronto | C Fraser, R O Hawkesbury M Fiv, Mass E L C Gallagher, F O C Gardner, P A O Garrett, Miss W E C Garrow, J T Toronto T Gear, Miss W M C Gubbyns Miss N F Leymorton |
| C Davidge, Miss A F Toronto | M Fiv. Miss E. L. Vineara Falls |
| C Davis, B P Newmarket | C Gallagher E O Toronto |
| V Dawes, Miss R A Toronto | C. Gardner, P. A. Bohou geon |
| C. Dayment, F. R. Toronto | V Carrett Miss W E Tojonto |
| C de Beauregard Miss E T Toronto | C Corrow I T Toronto |
| C Denton, F D Niseara Falls | T Gear Miss W M Orion |
| T de Pencier M T Kemptvalle | C Gibbons, Miss N E Leanington |
| V Due Muse D M Shannonville | C Gibson, T H Toronto |
| V Dinsmore, K M Toronto | M Giroux, W A Peterbolough |
| T Dixon, Miss C O L Brantford | C Gloson, T H Toronto M Giroux, W A Peterbolough V Givins, W M Regina, Sask |
| C Doan, Miss C O E Branciold | C Glaister, Miss D Wellesley |
| C Doan, Miss O H Toronto M Donley, H J Toronto | C Glaister, Miss D Wellesley C Godwin, E T Toronto |
| C Doan, Miss O H M Donley, H J Toronto M Donohue, W A C Dowkes, W F Owen Sound | C Godwin, E T Toronto |
| M Donohue, W A Sarnia C Dowkes, W F Owen Sound | C Goforth, I F Toronto |
| C Dowkes, W P Owen Sound | C Goldenberg, R Toronto C Goldhar, S N Toronto |
| V Down, H J Oakland V Doxsee, F A C Regina, Sask | |
| V Doxsee, F A C Regina, Sask | C Golding, Miss A N Toronto |
| V Doyle, A M Toronto C Drummond, Miss M E Toronto V Drummond, O L Toronto | C Goldstein, J Toronto |
| C Drummond, Miss M E Toronto | C Gollom, J Toronto |
| V Drummond, O L Toronto | C Gooch, T H Toronto |
| | C Gordon, Miss H M E |
| M Duggan, E T Toronto C Dunkley, J R Toronto | Ningara Falls |
| M Duggan, E T Toronto C Dunkley, J R Toronto C Eakin, J S Toronto | C Goulding, Miss G I Toronto |
| C Eakin, J S Toronto | C Gourlay, D E Toronto |
| | C Graham A R Ottowa |
| C Edmison, Miss H L Toronto | V Graham, Miss M N Victoria, B C |
| C Edmison, Miss H L Toronto C Elliott, R A Toronto V Emerson, L P Toronto | C Granatstein, S J Toronto |
| V Emerson, L P Toronto | C Green, H P Toronto |
| | |

Home Address

| 140 | inte | Home Address |
|---|--|---|
| C | Grittin, G. M. | Toronto |
| C | Griffiths, Miss P M | Toronto |
| C | Grosart, A H G | Toronto |
| Ċ | Grossberg B | Kıncardıne |
| č. | Cunn Miss I I | Toronto |
| v. | LI-11 Mars A BE | Durchmeter |
| v. | rian, wiss A wi | Burlington |
| v | Haller, M C | Hagersville |
| C | Halls, D J | Toronto |
| M | Hamilton, Miss M I | A Lindsay |
| С | Hamly, D H | Toronto |
| Ċ | Harding Miss D F | Toronto |
| ŭ | Hora D D | Milton |
| č | Harden Mar P D | Toronto |
| × | mariow, Miss E B | Toronto |
| ۷. | riarris, C. G. | Niagara Falls |
| Т | Harris, Miss I G | Oxford Mills |
| С | Harris, R A | Toronto |
| M | Harrison, Miss R M | Tamworth |
| C | Harrison, Miss V V | St Catharines |
| č | Harma E H | Midland |
| ŭ | Lowless D U | Port Hope |
| ¥, | Hawkins, K. H | Tort Hope |
| × | riendersnot, ri B | Kıngsville |
| Ċ | Heron, Miss D A | Ottawa |
| С | Hershey, Miss D A. | Toronto |
| С | Hessin, E I | Toronto |
| V | Hewitt, A.G. | Kitchener |
| Ċ | Hicks Miss R A | Brantford |
| č | Hickeon F F | Toronto |
| ~ | U.II Mars I C | Hartney, Man |
| | | |
| č | 7711, 771100 7 | riarchey, wan |
| Ç | Hiltz, Miss M R | Toronto |
| CCV | Hiltz, Miss M R Hodgins, Miss D B | Toronto |
| C V | Hiltz, Miss M R Hodgins, Miss D B | Toronto Ioosomin, Sask |
| CCV | Hiltz, Miss M R Hodgins, Miss D B Hood, J G | Toronto Toronto Ioosomin, Sask Stayner |
| 007 00 | Griffin, G. M. Griffith, Miss P. M. Grosart, A. H. G. Grosaberg, B. J. J. Hall, Miss A. M. Haller, M. C. Halls, D. J. Hall, Miss A. M. Haller, M. C. Halls, D. J. Harl, Miss A. M. Harmon, Miss D. F. Harlow, Miss C. B. Harrison, Miss V. Harrison, Miss V. Harrison, Miss D. Harlow, Miss D. Ha | Toronto Toronto Loosomin, Sask Stayner Port Credit |
| 000 400 | Hiltz, Miss M R Hodgins, Miss D B Hood, J G Horne, A R Horning, E. I. | Port Credit |
| 000 400 | Hiltz, Miss M R Hodgins, Miss D B Hood, J G Horne, A R Horning, E L Houser Miss R G | Port Credit Toronto |
| 40000 400 | Hiltz, Miss M R Hodgins, Miss D B Hood, J G Horne, A R Horning, E L Houser, Miss E G | Port Credit Toronto Toronto |
| 440000 400 | Hiltz, Miss M R Hodgins, Miss D B Hood, J G Hornc, A R Homing, E L Houser, Miss E G Houston, J W Houston, J W | Port Credit Toronto Toronto Toronto |
| 000000000000000000000000000000000000000 | Hiltz, Miss M R Hodgins, Miss D B Hood, J G Horne, A R Horning, E L Houser, Miss E G Houston, J W Howard, Miss M S | Toronto Toronto Toronto Toronto Whitby |
| 00440000 400 | Hiltz, Miss M R Hodgins, Miss D B Hood, J G Hornc, A R Horning, E L Houser, Miss E G Houston, J W Howard, Miss M S Hubbell, Miss C A | Toronto Toronto Toronto Vhitby Smiths Falls |
| 000000000000000000000000000000000000000 | Hiltz, Miss M R Hodgins, Miss D B Hodd, J G Horn, A R Horning, E L Houser, Miss E G Houston, J W Howard, Miss M S Hubbell, Miss C A Humphries, Miss Ms | Port Credit Toronto Toronto Toronto Whitby Smiths Falls A Wiarton |
| 000000000000000000000000000000000000000 | Hultz, Miss M R Hodgins, Miss D D Hood, J G Horning, E L Houser, Miss E G Houston, J W Howard, Miss M S Hubbell, Miss C A Humphries, Miss M Hunt, Miss M F | Port Credit Toronto Toronto Toronto Whitby Smiths Falls A Wiarton Carp |
| CON CCCCAACCA | Hultz, Miss M R Hodgins, Miss D D Hood, J G Hornc, A R Horning, E L Houser, Miss E G Houston, J W Howard, Miss M S Hubbell, Miss C A Humphries, Miss M Hunt, Miss M F M Hurt, Miss M F M Hurthurt, Miss M F | Port Credit Toronto Toronto Toronto Whitby Smiths Falls A Wiarton Carp |
| 04000440004 | Hultz, Miss M R Hodgins, Miss D D Hood, J G Horning, E L Houser, Miss E G Houston, J W Howard, Miss M S Hubbell, Miss C A Huuthers, Miss H C Hutchison, F F | Port Credit Toronto Toronto Toronto Whitby Smiths Falls A Wiarton Carp Bairie |
| 000000000000000000000000000000000000000 | Hiltz, Miss M R Hodgins, Miss D B M Hood, J G Horne, A R Horming, E L Houser, Miss E G Houston, J W Howard, Miss M S Hubbell, Miss C A Humphries, Miss M Hunt, Miss M F Hurburt, Miss M F Hurburt, Miss M Huthurn, Miss M Huthurn, Miss M Huthurn, Miss M Huthurn, Miss M | Port Credit Toronto Toronto Toronto Whitby Smiths Falls A Wiarton Carp Bairie |
| 000000000000000000000000000000000000000 | Hiltz, Miss M R Hodgins, Miss D B Hood, I G Hoort, A R Horming, E Housen, J I W Housen, J W Houserd, Miss M S Hubbell, Miss C A Humphries, Miss M F Hurburt, Alss H C Hutchison, F F Hutchison, F S | Port Credit Toronto Toronto Toronto Whitby Smiths Falls A Wiarton Carp Bairie |
| 000000000000000000000000000000000000000 | Hiltz, Miss M R Hodgins, Miss D B Mood, J G Horntc, A R Horning, E L Houster, Miss E G Houston, J W Howard, Miss C A Humphries, Miss M F M Hurthurt, Miss H C Mutchison, F F Hutchison, F F Hutchison, F F Hutchison, Miss M T M Innes, R T L | Port Credit Toronto Toronto Toronto Whitby Smiths Falls A Wiarton G Barre Toronto B Bracebridge Simcoe |
| CCV CCCCVVCCCVCVCVCVC | Hiltz, Miss M R Hodgins, Miss D B Hood, J G Horac, A R Hooser, Miss E C Howard, Miss M S Howard, Miss M S Hubbell, Miss C A Humphres, Miss M Hunt, Miss M F Hurburt, Miss H C Hurchisson, F F Hutchisson, F M S Innes, R T L | Port Credit Toronto Toronto Toronto Whitby Smiths Falls A Wiarton Carp Bairie Toronto B Bracebridge Simcoo Mansfield |
| 000 00000000000000000000000000000000000 | Hiller, Mas M R Hodguns, Muss D B Hodguns, Muss D B Hodguns, Muss D B Horning, E L Houser, Muss E G Houston, J W Howard, Muss M S Hubbell, Muss C A Humphries, Muss M F M Hurthurt, Muss H C Hutchison, F F Hutchison, Muss M Innes, R T L Ireland, C H Irvine, Muss H G | Port Credit Toronto Toronto Toronto Whitby Smiths Falls A Wiarton Carp Bairie Toronto B Bracebridge Simcoe Mansfield Orangeville |
| 000 00000000000000000000000000000000000 | Hiltz, Mass M R Hodguns, Miss D B M Hood, J G Hornt, A R Horming, E L Houster, J Miss E G Houston, J Miss M S Humph, res, Miss M S Humph, res, Miss H M Hurlburt, Miss H M Hurlburt, Miss H M Hurlburt, Miss H M Lingung, Miss M Innes, R T L Ireland, C H Irvine, Miss H G Iackson, A J | Port Credit Toronto Toronto Toronto Toronto Whitby Smiths Falls A Wiarton Barne Barne Toronto B Bracebridge Smicoe Mansfield Orangeville Toronto |
| 000 00000000000000000000000000000000000 | Hiller, Muss M R Hodgins, Miss D B M Hodgins, Miss D B M Hodgins, Miss D R Homer, A R Homer, Miss E G Howard, Miss M S Hubbell, Miss C A Humphries, Miss M Hunt, Miss M F M Hurchisson, F F Hutchisson, F F Hutchisson, Miss M I reland, C H Irvine, Miss H G lackson, A J Jackson, Miss M G Lackson, A J Jackson, Miss M G Mackson, A J Jackson, Miss M G Jackson | Port Credit Toronto Toronto Toronto Onto Whitby Smiths Falls A Wiarton Carp Barre Toronto B Bracebridge Simcoe Mansfield Orangeville Toronto Cardinal |
| CCA CCCCAACCCACACACACAC | Hilitz, Miss M R Hodgins, Miss D B M Hodgins, Miss D B M Horn, A E L Houser, Alies E G Houston, J W Howard, Miss M S Hubbell, Miss C A Humphres, Miss M Hunch, Miss M S Hubbell, Miss C A Humphres, Miss M Hunchisson, F F Hutchisson, F F Hutchisson, Miss M Innes, R T L Ireland, C H Irvine, Miss H G Irvine, Miss H G Irvine, Miss H G Iprinson, G L | Port Credit Toronto Toronto Toronto Toronto Smithis Falls A Wiarton Carp Barne Toronto B Bracebridge Simcoe Mansfield Orangeville Toronto Cardinal Toronto |
| 000 00000000000000000000000000000000000 | Hiltz, Mass M R Hodgms, Miss D D Hodgms, Miss D G Hornc, A R Hormag, C B Hormag, B E Houston, J W M Houston, J W Hutchison, F F Hutchison, F F Hutchison, F F Horeland, C H I France, Mass M Innes, R T L I Freinand, C H I France, Mass M Gennison, G L J Gennyon, Mass M Gennison, G L J Germyn, Mass E L | Port Credit Toronto Toronto Toronto Toronto Smithis Falls A Wiarton Carp Barne Toronto B Bracebridge Simcoe Mansfield Orangeville Toronto Cardinal Toronto |
| 000 00000000000000000000000000000000000 | Hitz, Mass M B D Hodgms, Mass D B Hodgms, Mass D B Horn, A R L Hornmag, L Hornmag, L Hornmag, L Howard, Mass M S Hubbell, Mass C B Howard, Mass M S Hubbell, Mass C M Hundhurz, Mass H G Hurburz, Mass H G Hurburz, Mass H G Hurburz, Mass H G L Fleand, C H Hurburz, Mass H G L Fleand, M G L Fleand, | Port Credit Toronto Toronto Toronto Whitby Smiths Falls A Warton Capp Barre Toronto B Bracebridge Simcoe Mansfield Orangeville Toronto Cardinal Toronto Whitby Ottawa |
| 000 00000000000000000000000000000000000 | Hitz, Miss M B D Modgns, Miss D B Mouston, J W Houser, Miss B G Houston, J W Humphres, Miss M S Humphres, Miss M Humphres, Miss M Hurburt, Miss H G Miss D Miss M M Miss M Miss M M M M | Port Credit Toronto Toronto Toronto Whitby Smiths Falls A Warton Capp Barre Toronto B Bracebridge Simcoe Mansfield Orangeville Toronto Cardinal Toronto Whitby Ottawa |
| 000 00000000000000000000000000000000000 | Hornic, A. R. Horning, E. L. Houser, Miss E. G. Houser, Miss M. S. Hubbell, Miss C. A. Humphries, Miss M. Humphries, Miss M. Huthurt, Miss M. F. M. Hutchison, F. F. Hutchison, F. F. Hutchison, Miss M. G. Leiand, C. H. Irvine, Miss H. G. Iackson, A. J. Leiand, C. H. Le | Fort Credit Toronto Toronto Toronto Whitby Smiths Falls A Wiarton Carp Barre Toronto B Bracebridge Simcos Mansfeld Orangeville Toronto Cardinal Toronto Whitby Ottawa Toronto |
| CCV CCCCVVVCVCVCVCVCVCVCVCVCVCVC | Hornic, A. R. Horning, E. L. Houser, Miss E. G. Houser, Miss M. S. Hubbell, Miss C. A. Humphries, Miss M. Humphries, Miss M. Huthurt, Miss M. F. M. Hutchison, F. F. Hutchison, F. F. Hutchison, Miss M. G. Leiand, C. H. Irvine, Miss H. G. Iackson, A. J. Leiand, C. H. Le | Fort Credit Toronto Toronto Toronto Whitby Smiths Falls A Warton Carp Barre Toronto B Bracebridge Simcoe Mansfield Orangeville Toronto Cardinal Toronto Whitby Ottawa Toronto Toronto |
| CCV CCCCVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV | Hornic, A. R. Horning, E. L. Houser, Miss E. G. Houser, Miss M. S. Hubbell, Miss C. A. Humphries, Miss M. Humphries, Miss M. Huthurt, Miss M. F. M. Hutchison, F. F. Hutchison, F. F. Hutchison, Miss M. G. Leiand, C. H. Irvine, Miss H. G. Iackson, A. J. Leiand, C. H. Le | Fort Credit Toronto Toronto Toronto Toronto Toronto Whitby Smiths Fall A Warton Carp Barne Toronto B Bracebridge Simcos Mansfield Orange ville Toronto Cardinal Toronto Cardinal Toronto Unity Ottawa Toronto Toronto Toronto |
| 000 00000000000000000000000000000000000 | Hornic, A. R. L. Horning, E. H. Houser, Mass B. E. G. Howard, Mais M. S. Hubbell, Mass C. A. Humphries, Mass M. Hunth, Mass M. F. Munphries, Mass M. Huthur, Mass M. F. M. Hutchison, F. F. Mass M. G. Lennison, G. L. L. G. Lackson, Mass M. G. Lennison, G. L. G. Lernyn, Miss M. G. Gones, F. M. G. Olones, F. M. C. Jones, Mass M. G. Jordan, Miss M. I Jordan, Miss M. E. Jordan, Miss M. E. Jordan, Miss M. I Jordan, Miss M. E. Jordan, Miss A. K. Hutchison, M. L. Hutchison, M | Fort Credit Toronto Toronto Toronto Whitby Smiths Falls A Warton Carp Barre Toronto B Bracebridge Simcoe Mansfield Orangeville Toronto Cardinal Toronto Whitby Ottawa Toronto Toronto |
| 000 00000000000000000000000000000000000 | Hornic, A. R. Horning, E. L. Houser, Miss E. G. Houser, Miss M. S. Hubbell, Miss C. A. Humphries, Miss M. Humphries, Miss M. Huthurt, Miss M. F. M. Hutchison, F. F. Hutchison, F. F. Hutchison, Miss M. G. Leiand, C. H. Irvine, Miss H. G. Iackson, A. J. Leiand, C. H. Le | Fort Credit Toronto Toronto Toronto Toronto Toronto Whitby Smiths Fall A Wiarton Carp Barne Toronto B Dracebridge Sinco Mansfield Orangeville Toronto Cardinal Toronto Uhitby Ottawa Toronto Toronto Toronto Toronto Toronto |

Name Home Address Brantford Joyce, A L Kay, Miss H A R Stratford C Keast, Miss A M Toronto Keast, T P Toronto V Keffer, J W C Kenny, W E C Kergin, F G C Kergin, W S M Kerr, E A Hespeler Orillia Prince Rupert, B C Prince Rupert, B C Toronto M Kerr, Miss H M Toronto Keir, J G Toronto C Kertland, D M C Ketchum, K G B M Keyes, V M Toronto Toronto Stratford King, C M King, F G C King, C M Toronto
C King, F G Cayuga
V Kingston, Miss D A Campbellford
Toronto C Kinnear, H W C Klotz, Miss J Toronto Ottawa C Knott, G A Toronto C Knox, Miss C Lalor, G C Knox, Miss A M D Kelowna, B C Toronto V Lamont, Miss K J C Langstaff, Miss H C Regina, Sask Richmond Hill T Larsen, Miss N M C Lawson, L B Katrine Sta Toronto C Laxton, Miss M E Totonto C Lazaresco, Miss L R T Lazier, J E Toronto Hamilton C Lea, A G Toronto

M*Leacock, Miss A M V Toronto Toronto M Lee, Miss A F C Leizner, H V Lent, E E Toronto Toronto C Levi, E A Totonto Levy, Miss B Toronto C Levy, Miss B
V Liddy, J E
C Lipshitz, Miss D H
C Livingstone, J G
C Lochead, Miss M
V Lochrie, Miss C D Orangeville Toronto Welland Guelph Toronto V Lockwood, W W Victoria, B C C Lone, J Toronto C Lorenzen, F St Catharines C Lount, H F C C Low, T St C Lount, H F C Toronto Toronto

V Luke, Miss E F

C Lyon, Miss D C Lyon, F M Toronto Toronto M McAlpine, J C Marysville McBride, Miss L E Smiths Falls McCallum, J E McConnell, Miss C Regina, Sask Toronto

Toronto

| *Michaelmas Term ‡Dispensation for Session | Name C McCormuck. Mass D 1 Pembroke C McCorary, Mass A Alexandra, Va C McCullagh, D G McCullough, J F Sudbuny C McCullagh, Mass D C C McChary, Mass D R C MacCullagh, Mass D C C McChary, Mass D R C McCullagh, Mass D C C McChary, Mass D R C McCullagh, Mass D C C McChary, Mass D R C McCard, Mass D C C McChary, Mass D R C McChary, Mass D B C McChary, Mass D C C Mag, H P C Mann, C C, Jr C Mann, C C, Jr C Mann, C C, Jr C Mann, C C Jr C McChary, Mass B C C Mann, C C Jr C Mann, C C Jr C McChary, Mass B C C Mann, C C Jr C McChary, Mass B C C Mann, C C Jr C McChary, Mass B C C Mann, C C Jr C McChary, Mass B C C McChary, McChar | Name V Massey, Miss B V Massey, Miss B V Massey, Miss B C Matthews, Miss B C Miss, Miss B C Miss, Miss B C Miss, Miss B C Miss, Miss B C Moore, Miss B C M |
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| | *Michaelmas Term | V Peart, Miss L C St Marys |

APPENDIX

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| Name Address | Name Home Address |
|---|---------------------------------|
| C. D. J. M. J. H. Trome Address | M Chechan Must M D |
| C Pierdon, Miss I H Toronto | M Sucenan, muss m |
| C Plaunt, A B Ottawa | Springheid, Mass |
| V Plewes, Miss L W Toronto | M Sheeran, M188 M Marysville |
| V Plunkett, T H Meaford | C Sherman, H H Toronto |
| V Potter Miss F V Toronto | M Shuman, P G Toronto |
| M Ponton C. C. Crond Falls Ned | C Shute W E Windson |
| M Tower, G C Grand Pans, 14nd | C Count Muss P Towards |
| V Price, C B Newburgh | V Cofee C C Mass Town Control |
| C Procter, Miss L R Toronto | V Sitton, S C Minose Jaw, Sask |
| V Pugh, Miss I E Whitevale | C Silverton, S Toronto |
| C Quarter, S A Toronto | C Singer, L A Toronto |
| C. Quinlan, Miss A. I. C. Barrie | C Singlehurst, J II Oakville |
| M Ourslan M I Trout Creek | C Smith B L. Toronto |
| C Padalifia N D Taranta | C Smith E H St Catharines |
| T D I C III | T Courth C F F Hemilton |
| I Kaile, G W I oronto | C C th Mars C A Taninton |
| C Ramage, H A Durham | C Smith, Miss G A Lansing |
| C Ramsden, Miss M C Grimsby | C Smith, J F Toronto |
| C Ranev, A S Orillia | C Smith, Miss M R Lansing |
| C. Rateliff, Miss R. B. Toronto | C Smith, T C H Alliston |
| T Reid E M Toronto | T Smith, W L Kingsville |
| V Paul Muse I A Toronto | V Smitherman A I Tairne |
| V Reid, Miss J A Tolonto | C Smithes A F Wester |
| C Remick, R B 1 oronto | T C J A TI Weston |
| V Risdon, F G Granton | V Sileyu, A 11 Wellallu |
| C Risk, i C Totonto | v Snyder, G A Magara rans |
| V Kittenhouse, Miss A Vineland Sta | C Snyder, K St Jacobs |
| Al Rivers, Miss E A Bogart | C Somerville, C R, Jr London |
| C Robertson, F W Toronto | C Somerville, Miss M. Orono |
| C Robertson, O A Ida | V Souter, Miss 1 Brucefield |
| C Robertson, S Milton | V Soward, H G Toronto |
| C Robinson, G deB Toronto | V Sparham, C E Caledonia |
| V Robinson, Miss G. O. Gueloh | C Spence, K D M Toronto |
| V Robinson, Miss M. New Tolonto | C Stacey, C P Toronto |
| M Rocha N Toronto | C Standeaven, Miss T I St Marve |
| C Roos IC O Tolonto | C Steinbauer H Toronto |
| C Rest Mars E M Dunnwille | V Stage F A Hadalaura |
| C Rear Mars 1 II Dunnyme | V Storling I F W Codes Courses |
| C Ross, Mas A n Dalle | V Sterning, J E W Could Springs |
| C Ross, G A (arieton Place | C Stevenson, Miss IV IV Toronto |
| C Rowan, A H Toronto | C Stevenson, Miss S J Toronto |
| C Ruddock, J Y Toronto | C Stewart, Miss B E Norwich |
| C Rugg, Miss M E Toronto | V Stewart, Miss J Toronto |
| C Samuels, L S Toronto | C Stewart, J H Springfield |
| C Samuels, Miss M M Toronto | C Stewart, Miss M E Scaforth |
| C Sanderson, D. E. Ida | C Stewart, M T Wingham |
| C Satterly I Tomato | C Stinson, Miss F M Toronto |
| C Saundam Man I P Waster | C. Stirrett Miss M. M. Sarnia |
| C Saunders, Miss J E. Weston | V St John I S Uvbridge |
| Saywell, H A Toronto | C Stellers C W |
| C Scandiffio, N F Toronto | C Stellers E II |
| C Scott, G W Toronto | C Stonery, F H Toronto |
| C Scott, Miss I, I Toronto | v Stone, Miss D C Toronto |
| M Servais C I Port Arthur | C Sugar, L Toronto |
| C Can all W C | 1 Sugden, F Paris |
| C dewell, W 5 Toronto | V Sullivan, Miss F E Stavner |
| C Snapiro, I Toronto | C Sullivan, G F St Catharines |
| C Snarpe, H L Orillia | M Sullivan, P B Toronto |
| V Shaver, Miss A M Ancaster | C Sutherland, Miss F H Patroles |
| V Shaver, Miss D M Brockville | C Sutherland Muse I N Patroles |
| C Sliaw, Miss M M Toronto | C Smorte H M Terrote |
| , | O Ommica, II III 10ronto |
| Name C Pierdon, Miss I H C Pierdon, Miss I C C Ramage, H C Radeliff, N C Ramage, H C Radeliff, Miss R T Red, E M C Radeliff, Miss R T Red, E M C Radeliff, Miss R T Red, E M C Robertson, F W C Robinson, Miss D C Robonson, Miss | |
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| | E Toronto Toronto Campbellford Toronto Toronto Toronto Hauulton Toronto Hauulton Toronto Oakvulle Toronto Orilla Seaforth I Galt gara Falls, N Y Toronto Markdale Uxbndge Toronto Ballinafad | 345 162 36 | Weston Toronto Toronto Sunderland Totonto Kelowna, B C Toronto Strathroy Jordan Totonto Halleybury Toronto Paris Paris |
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| | St Michael's Coll | | |
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| | | 584 | |
| | SECOND | YEAR | |
| CUniversity (| Cells 37 37-11- | we Callery T. Truster | C-llane |

C-University College, V-Victoria College, T-Trinity College, M-St Michael's College

| V Adams, Miss M E V Aikens, Miss W G C Alderson, G K D C Allan, H M | Grimsby East | C Anderson, Miss J I C C Anderson, Miss M D C Anderson, Miss R M C Anderson, W M V Anglin, Miss R W | Port Dove Toront Toront Toront |
|--|---------------|---|---|
| C Allin, Miss E I | Blackwater | C Appelbe, Miss M R C Armstrong, P T | Toront Toront |
| M Andary, Miss H C | | V Armstrong, R H | Oron |
| Sault St | e Marie, Mich | C Arnold, Mass K J | Toront |

^{*} Michaelmas Term

[†]Dispensation for Michaelmas Term

| Name | Home Address | Name Home Address |
|---|---|---|
| C Digby, G S | Toronto | |
| V Dilworth, E B | Toronto | C Gibb, W K Drayton C Gibbs, F H Ramsgate, Eng |
| V Diworth, E B | | C Gibbs, F H Ramsgate, Eng |
| V Dingwall, R M C Doherty, B W C Dole, Miss D C Donnell, A A C Donnelly, A J C Douglas, J F R | Priceville | C Gibbs, F H Ramsgate, Eng C Gibson, Miss J I Toronto V Gibson, R E. Tillsonburg |
| C Doheity, B W | Toronto | V Gibson, R E Tilisonburg |
| C Dole, Miss D | Toronto | C Goldie, J L Guelph |
| C. Donnell, A. A. | Galt | V Goodison, J E Sainia |
| C Donnally, A I | Pinkerton | M Gormaly, Miss C Chicago, Ill |
| C Dougles I F P | Toronto | C Contrary, Mass C Chicago, III |
| C Dow, Miss R M | Toronto | C Graburn, A L Toronto C Graham, Miss G R Belleville |
| | Toronto | C Graham, Miss G R Belleville |
| M Doyle, Miss C A | Dundas | v Granam, I E Toronto |
| V Drewry, Miss N O | Chatham | |
| C Duff. D C B | Toronto | C Grant, D H Toronto |
| V Duff, G L | Hamilton | C Gray, Miss M E Toronto |
| M Duffy, Miss G N | Hamilton | V Graydon, Miss A E Toronto |
| M Duggan, C J | Otto | V Graydon, Miss A E Toronto |
| M Duggan, C J | Ottawa | C Green, W H W Toronto |
| M Duggan, Miss L C | Toronto | C Greenizen, Miss H M Petrolea C Grier, J C Owen Sound |
| M Dwyer, Miss M | Toronto | C Gijer, J C Owen Sound |
| V Eadic, Miss F P | Scotland | V Griffin, Miss E Cannington |
| C Earle, W E | Toronto | C Gringorten, I M Toronto |
| V Elliott, Miss D E. | Toronto | M Haffey, H J Welland |
| M Duggan, Miss L C M Dwyer, Miss M V Eadle, Miss F P C Earle, W E V Elliott, Miss D E V Ellis, Miss A M M | Gananoque | |
| V Farley, Miss E E | Taratar | v riaines, Miss K w Sharon |
| V Pariey, Miss E E | Trenton | C Haley, Miss M E Toronto |
| V Fawcett, D F | Port Colborne | C Hall, A C Oshawa |
| V Fawcett, D F V Fennell, V | Havelock | C Hall, A C Oshawa V Hall, C H Swansea |
| Cirerguson, Miss L E | ۶. | |
| M | ount Cobb, Pa | V Hall, N H Guelph |
| V Ferguson, W M | Toronto | V Hall, N H Guelph C Halliday, D M Chesley V Hames, G H Oybow, Sask |
| C. Fidler, Miss M. | Toronto | V Hames G H Ovhow Soak |
| | | C Hamilton, Miss A M B Toronto |
| C Fundley C F | Carloton Place | M Hamilton D I Own Count |
| C Findlay, G E C Fineman, L C Finkelman, J C Finkelman, J E B | T | W Hamilton, Miss M B Toronto M Hamilton, B J Owen Sound V Hamilton, K L Londesborough V Hanna, Miss M V Port Carling M Hannah, W H Hamilton |
| C Fineman, L | Toronto | V Hamilton, K L Londesborough |
| C Finkelman, J | Toronto Hamilton Norwood Paris | V Hanna, Miss M W Port Carling |
| C Finlay, E B | Norwood | M Hannah, W H Hamilton |
| | Paris Toronto Toronto Toronto | V Hanson, Miss N L Dixon Corners |
| V Fletcher, Miss P | Toronto | C Hardy, A S Brockville |
| V Fletchei, W G | Toronto | M Harrigan, B W Hamilton |
| M Foley, Miss M E | Toronto | V Harris, C Brantford |
| V Forward, Miss D F | Ottawa | V Harris, H E Hamilton |
| V Forward, Miss D F C Francis, I E C Francis, L L T Frank, C J C Fraser, Miss C C C Fraser, C C C Fraser, C G V Fulton, R B C Galvin, Miss M C Galvin, Miss N M C Gardiner Miss D L C Gardiner Miss D D | Hamilton | C Harris, L J Toronto |
| C Propert T T | Toronto | C Harris, L J Toronto |
| T Provide C T | Toronto | C Harris, Miss M C Port Perry C Harris, Miss R A Toronto |
| rank, CJ | Toronto | C Harris, Miss R A Toronto |
| C Fraser, Miss C C | Toronto | V Harrison, R B Lakefield |
| C Fraser, C C | Glen Sandfield | C Hartwick, Miss M Toronto |
| C Fraser, C G | Toronto | C Hawke, E E Toronto C Hawley, Miss O L Toronto C Haylurst, W P Toronto |
| V Fulton, R B | Lindsay | C Hawley, Miss O L Toronto |
| C Galbraith, Miss M | Milton | C Hayhurst, W P Toronto |
| C. Galvin, Miss N. M. | Toronto | V Hazlewood, Miss R M Grimsby C Helper, Miss M Toronto |
| C Gardiner, Miss D J | Cornwall | C Halper Mice M Teroute |
| M*Gorney Marc C. M. | | C Helper, Miss M Toronto |
| M*Garney, Miss G M | Toronto | V Henderson, Miss M M Waterloo |
| C Garrett, D K | Loronto | V Henderson, Miss M M Waterloo V Hendry, H A Dundas |
| C Garvin, J B | Sydenham | |
| C Gemmiii, J S | Toronto | C Hewlett, E M West Hill |
| C Garriett, D R C Garvin, J B C Gemmill, J S M Gentles, Miss A J | Parry Sound | C Hillary, A T Toronto |
| C Germe, W | Brantford | V Hilliard, Miss G M Waterloo |
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| *Michaelmas Term | | |

| Name Home Addre | ss Name Home Addr | CSS |
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| V Hipwell, Miss A P Alliste | | nto |
| T Hird, Miss M G St Catharin | | |
| C Hodges, Miss W Dund | | ach |
| C Hodges, Miss W Dund C Hodgetts, Miss A M Clarks C Hoffman, Miss E Toron | | |
| C Hodgetts, Miss A M Clarks | | |
| C Hoffman, Miss E Toron | to V Leigh, D M Greenwo | |
| C Hogg, F S Prest | | |
| V Hollinrake, A F Hamilton | | |
| V Honey, Miss M E Lynd | en C Lines, T H Toroi | ato |
| V Horton, Miss M E Tolon | | |
| V Horwood, W P Toron | | iris |
| V Hubbell, Miss F G Smiths Fa | | |
| V Hubbert, Miss R E Toron | | 110 |
| V Fluidhert, Miss R E Toron | to T Luxton, Miss A W Victoria, E | |
| C Hudson, Miss E S Presto C Huff, Miss D M Peterborou | on M Lyons, W J Otta | |
| C Huff, Miss D M Peterborou, W Hughson, Miss M Hamilte C Hunter, Miss L H Toron C Ironside, Miss B H Thedlo V Irving, J A Moose Jaw, Sa V Irwin, Miss A W Cambellfo | th C MacArthur, W G Stays | |
| V Hughson, Miss M Hamilto | on M McCarthy, Miss E M Winds | 50r |
| C Hunter, Miss L H Toron | to M McCarthy, Miss H Di | xie |
| C Ironside, Miss B H Thedfo | rd C McConkey, N R Stratfo | |
| V Irving, I A Dium | O C McCready, Miss M S Toron | |
| V Irwin Miss A W Moosa Jaw Sa | OO C McCready, Miss M S Toron | |
| V Jerus Muse W M Campbellio | k V McCutcheon, M W Toron | |
| V Irwin, with I Campbellio | TO V McDonald, C J Toros | ato |
| V Irwin, Miss A W Mose Jaw, Sa V Irwin, Miss A W Campbellio C Iscovitz, A Toron Bellevi V Jackson, Miss E Toron V Jameson, Miss I G Toron V Jameson, Miss L Toron Torone M Jameson, Miss L Toron Jameson, Miss Holland, Miss Hol | to C Macdonald, J K Toror | nto |
| 1 Ives, L M Bellevi | C McDonald, Miss M C M | |
| V Jackson, Miss E Foron | Sutton W | |
| C Jackson, Miss I G Toron | to C Macdonald, Miss M J Act | |
| V Jamieson, Miss L Toron | to C Macdonald, Miss M J Act | |
| T Janes, H Onl | | ıto |
| T Janes, H Ont J Jennings, W B Penetangush C Johnson, Miss If Toron C Johnston, M S Collingwo C Johnston, R W S Toron C Jones, W Toron | ne C McEachern, D L Toror | ito |
| C Johnson, Miss K Toi on | to C McElroy, Miss E L Otta | wa. |
| C Johnston, Miss II G Toron | | |
| C Johnston, M Collingwo | | |
| C Johnston, M Collingwo | | |
| C Jolinston, R W S Toron | to C McFeeters, Miss D I Toron | 1to |
| C Jones, W Toron | | |
| M Kane, J P Vancouver, B | | ıс |
| C Kaplan, M Toron C Karn, Miss M T Woodsto C Keighley, G L Pembro C Kells, Miss D G Toron | to C MacGillivray, J R Guel | inh |
| C Karn, Miss M T Woodsto | ck C McIntosh, Miss E M | ·.p |
| C Keighley, G L Pembro | | |
| C Kells, Miss D G Toron | | aes |
| M Kelly, J F Chatswor | th T McIntvre, Miss U M | |
| C Kendell, G D F Dunds | | lev |
| M Kernahan, Miss H M Toi on | | |
| C Warrahan Mars D A C Trans | to V McJannet, Miss E D Gravenhu | |
| C Kernohan, Miss D A S Toron | to C McKay, Miss J E Port Arth | |
| V Kincaide, Miss F M Unionvi | lle C McKeever, Miss B M Otta | wa |
| C King, B B Toron | | alt |
| T Kinnear, Miss M II Oshav | va V†McKenzie, D W Major, Sa | sk |
| V Kirkland, Miss J Hamilt | on M McKeon, J E Wind | enr |
| C Knowles, Miss B W Sarr V Knox, Miss M E Oro | ua C McLaughlin, Miss E R Toroi | nto |
| V Knox, Miss M E Oro | | 1+0 |
| C Krug, C A Chesl | ey C MacLellan, Miss M J Claremo | 110 |
| C Laborde, Miss M C Brantfo | | |
| V Laidman, Miss M E Bar | rd M McManamy, J P Thore | |
| V I and A D Waller | | |
| V Larke, A E Walkervi | | |
| V Lavell, Miss M M Toron | to C McNabb, Miss A E Belmo | ont |
| C Lavine, A Toron | to V MacPhee, Miss F W | |
| C Law, C A G Toron | to New York City, N | Y |
| | | - |
| †Dispensation for Michaelmas T | erm | |

| | ıme Ho | me Address | Name | Home Address |
|-----|--|------------------------------|---|-----------------|
| C. | Macpherson, A. G. | Orangeville | M O'Leary, M N 'C Orloff, H | Toronto |
| С | MacRostie, Miss A. C | Brampton | C Orloff H | Toronto |
| v | Maas, Miss D | Toronto | C Orr, Miss E J | |
| C | Mackin T | Toronto | V Outwater, Miss M | Toronto |
| ř | Malcolm, Miss J L C Manuel, J Saul | Toronto | V Outwater, Miss M | Mimico Beach |
| ۲, | Malcolli, Miss J L C | St George | C Page, R R H C Pallett, Miss S B | Toronto |
| Ň | Manuel, J Saul | t Ste Marie | C Pallett, Miss S B | Islington |
| C | Martin, Miss A. M | Chatham | | ttetown, PEI |
| M | Martin, B J | Toronto | C Pantazy, H | Toronto |
| Т | Martin, F I | | V Parker, Miss J A | Humberside |
| T | Martin, Miss M M Martyn, Miss M M Mathers, G S We Mathers, G S F Mathson, R S F Mathson, R S F Mathson, L C | Milton | V Partridge, Miss E E | London |
| č | Martyn Miss M M | Ripley | C Partridge, Miss O M | 4 Guelph |
| 17 | Mathem C C W. | yburn, Sask | U Dattinge, Miss O h | a Gueipii |
| č | Mathers D.C. | yourn, Jask | V Patterson, C S | Toronto |
| × | Mathison, R 5 | ort William | C Patterson, J G | Ottawa |
| ç | Matthews, Miss H | Weston | C Patterson, J G C Pattison, Miss I E | Toronto |
| v | Medcall, L C | Toronto | C Payne, J D V Peacock, E R | Welland |
| С | Meek, Miss E R | St Thomas | V Peacock, E R | Lansing |
| С | Meretsky, M | Windsor | C Pepper, A E V Perkin, L L | Prescott |
| C | Messervy, R B | | V Perkin I. I. | Toronto |
| | Matthews, Miss H Medcalf, L C Meek, Miss E R Meretsky, M Messervy, R B Charlotte | town, PEI | C Parria D K | Wingham |
| C | Michalson, Miss E | Toronto | C Perrie, D K C Perrott, Miss L S | Alliston |
| | | Toronto | C Periott, Miss L 3 | Ailiston |
| 177 | M. Jalana A Tr | Toronto | V Perry, A E Niago | ara rans, NY |
| × | Middleton, A fi | Toronto | M Phelan, Miss M J V†Philp, W R | Guelph |
| č | Wins, W J P | Toronto | V†Philp, W R | Colborne |
| Ç | Milne, J E | Hamilton | C Pidgeon, A. L. | Toronto |
| C | Milne, W S | Toronto | V Pinder, Miss M M | Arthur |
| С | Mitchell, Miss A L | Drumbo | C Plaxton, H I | Toronto |
| v | Mitchell, Miss E G | St Marvs | C Pole, E A F | lot Springs, Va |
| C | Michell, Miss V Midleton, A H Mills, W J P Milne, J E Mitchell, Miss A L Mitchell, Miss E G Mitchell, G C Mitchell, J H Mitchell, Miss P S | Flesherton | | Chapleau |
| v | Mitchell, I H | Toronto | T Pringle, C C D C Pritchard, A L C Procter, A E C Purvis, C J | Prescott |
| v. | Mitchell Miss P S | Oakville | C Durahami A T | Toronto |
| ř | Mitchell P C W | | C Principality A L | |
| × | Monle Man A M | Hamilton | C Frocter, A E | Toronto |
| × | Mitchell, Miss P S Mitchell, R C H Monk, Miss A M Moore, Miss M H | Ottawa | C Purvis, C J | Essex |
| Ţ | Moore, Miss M H | Toronto | | Toronto |
| v | Morrison, Miss E E | Petrolia | V Pyne, C E | Toronto |
| Ţ | Morrison, W K | Richwood | M Quinlan, Miss G J | Port Hope |
| C | Morrow, Miss D B | Toronto | C Rabinowitch, J | Toronto |
| С | Moore, Miss M H Morrison, Miss E E Morrison, W K Morrow, Miss D B Moulton, C A St Mowat, Miss J I Mowat, Miss M C Murro, Miss H J | lohn's, Nfld | C Rabow, M | Toronto |
| C | Mowat, Miss I I | Acton | C Rae Miss C M | Toronto |
| Ĉ. | Mowat, Miss M C | Acton | C Rankin W. M | Toronto |
| v | Munro Muss H I | Troquois | C Parreon D S | Goodwood |
| ċ | Murray I D | Acton Iroquois Toronto | C Bannon C H | Toronto |
| Ň | Murray, J R Murrode, Miss M | Toronto | V David Mars VI M | Dellerelle |
| 77 | Murrode, Miss M | Toronto | v Reid, Miss H M | Belleville |
| × | Nanton, P C Win Needler, A W H Needler, Miss W E | nipeg, Man Toronto | C Ritchie, Miss J H | Toronto |
| Š | Needler, A W H | Toronto | C Robertson, W H | Toronto |
| C | Needler, Miss W E | Toronto | C Robinette, J J | Toronto |
| м | Nelligan, Miss E M | Toronto | C Robinson, W E | Toronto |
| С | Nesbitt, Miss C L A Nesbitt, W R Ness, Miss M E | Toronto | C Rogers, K H V | Vinnipeg, Man |
| С | Nesbitt, W R | Toronto | C Roos, Miss H C | Waterloo |
| C. | Ness, Miss M. E. | Ottawa | C Roos Miss K A | Kitchener |
| Ć. | Nettleton, Miss W Newby, M T | Toronto | V Pyne, C E M Qunfan, Miss G J C Rabnowitch, J C Rabow, M C M C Randon, W C M C Randon, W M C Rawson, D S C Rawson, D S C Rawson, G H C Robnette, Miss H M C Ritche, Miss H M C Robnette, B H C Robnette, Miss H C Robnette, S C Rose, Miss H C Rose, Miss D C Roses, Miss D | Toronto |
| č. | Newby M T | Toronto | C Rose Muse D F | Brussels |
| M | Neylan, F E | Midland | C Barrers I M | Diussels |
| 35 | Manne T | | C Rossman, I M | Toronto |
| 17 | Noonan, J | Mt Forest | C Rossman, I M C Rotenberg, Miss H C Rotenberg, Miss R | Toronto |
| v. | Oaks, Miss I M | Preston | C Rotenberg, Miss R | Toronto |
| W | O'Grady, Miss R | Toronto | C Roth, M | Toronto |
| | †Dispensation for Mici | aelmas Term | | |
| | Dispensation for Sessi | | | |
| | | | | |

| Name | Home Address | Name | Home Address |
|--|---------------------|--|---------------------------|
| M Ruth, F S | Toronto | C Toube I | Toronto |
| C Sadamala Musa E | Toronto | V Taylor Muss A | Toronto |
| C Sadowski, Miss E V Sandy, Miss D A | Omemee | C Taylor, Miss II | Bracebridge |
| V Sarles, Miss D A V Sayles, Miss P C Schon, W B C Scott, A C V Scott, Miss M M C Scott, Miss M M | Tarrete | C Taube, L V Taylor, Miss A C Taylor, H M T Taylor, T H C Taylor, W S C Teskey, Miss M C Thompson, A C | Hamilton |
| C Caller III D | Toronto | C Trades W/ C | Toronto |
| C Schon, W D | Halifax, N S | C Taylor, W S | Oakville |
| C Scott, A C | Toronto | C Teskey, Wiss W | Toronto |
| V Scott, Miss M M | Ingersoll | T Thompson, Miss M | E Almonto |
| C Scott, Miss O J C Selby, D L | Toronto | | E Almonte |
| C Selby, D L | Simcoe | C Todd, N A | Hamilton |
| V Service, Miss E W | Toronto | C Toole, H A | Port Dover |
| V Service, Miss M J | Toronto | C Tory, J M | Toronto |
| M Sharpe, Miss M | Toronto | M Traynor, T R | Owen Sound |
| C Shaw, Miss E B C Shell, Miss L N M | Guelph | V Tremaine, Miss A 1 | M Toronto |
| C Shell, Miss L N M | | C Turnbull, Miss J F | _ Galt |
| S | ault Ste Marie | C Turner, H A | Fergus |
| C Sher, D C Shiell, Miss D N C Shifrin, A | Toronto | V Turner, Miss K | Toronto |
| C Shiell, Miss D N | Toronto | V Turner, T R | Walkerville |
| C Shifrin, A | Toronto | V Turner, W H | Toronto |
| M Silvester, Miss R A | Toronto | C Turner, W R | Fergus |
| C Sıms, Miss E | Thistletown | C†Tustin, Miss E A | Toronto |
| C Sims, Miss E V Sinclair, J V | Barrie | V Turner, T R V Turner, W H C Turner, W R C †Tustin, Miss E A C Utting, Miss A K | Woodstock |
| V Skinner, Miss A K V Smale, F E | Simcoe | | I Morrisburg |
| V Smale, F E | Toronto | C VanEvery W A T | Toronto |
| C Smart, Miss D A | Toronto | C Vanstone, E N C Vanstone, Miss M | Toronto |
| C Smart, I D | Brampton | | Wingham |
| C Smeaton, Miss W H | Niagara Falls | C VanValkenburg P | Toronto |
| V Smith, Miss B E | Toronto | C Verity, Miss H E | Brantford |
| V Smale, F E C Smart, J D C Smart, J D C Smeaton, Miss W H V Smith, Miss B E C Smith, E G V Smith, Miss E M C Smith, Miss H S C Smith, L A C Smith, | Pembroke | C Walerstein, I | Toronto |
| V Smith, Miss E. M. | Toronto | V Wales, Miss M E | Napanee |
| C Smith, Miss H S . | St Catharines | V Walker, Miss E I | Barrie |
| C Smith, L. A | Uxbridge | T Walker, R P | Toronto |
| V Smith, Miss R N | 0.121.05 | C Ward, A B | Hamilton |
| M | oose Jaw, Sask | C Waring, Miss M K | Toronto |
| T Smith, W F R | Fort Erie | C Waring, Miss M K C Warren, C M | Toronto |
| C Soderman, Miss H | M | C Watkins, J B C | Norval Sta |
| - Codo: man, milos xi | Red Deer, Alta | M Watson, G D | Toronto |
| C. Speirs, N. R. | Toronto | C Watson, H G I | Stratford |
| C Speirs, N R V Spencer, MissM J C Stanbury, W S C Stark, H A V Starr, Miss M A E C Steele, Miss S M T Stewart, C D C Stewart, Miss J C C Struing, Miss J M C Strver, Miss D M Story, Miss N C M Sullyran Miss D C M Sullyran Miss D M Sullyran M Sull | Vancouver B C | V Watson, K P | Sarnia |
| C Stanbury W S | Fyoter | | Palmerston |
| C Stark H A | Toronto | V Waugh, F D R T Waugh, W H C Weber, J J V Webster, S D L | Taimerston |
| V Starr Mice M A F | Toronto | T Wangh W U | Toronto Niagara Falls |
| C Steele Miss S M | Amberst N.S. | C Waber I I | Triagara rans |
| T Stewart C D | Barrie | V Woheter C D I | Toronto Little Britain |
| C Stewart Miss I C | Shown illo Oue | V Wegenast, Miss I S | |
| C Streling Mes I M | Agreeoust | C Weir, Miss N P | Waterloo |
| C Sturm Muc D A | Unioniti | C Weiss, H J | Toronto |
| M Story Muss N C | Cuelob | V West, Miss E M | Toronto |
| M Sullivan, Miss D H | Toucipi | V West, Miss E M | Almonte |
| M Sullivan, W C | Toronto Toronto | V Westman, Miss M E | Toronto |
| C Sutton Man F F | Toronto | M Wickett, Miss I J | Toronto |
| T Suarma W C U | Belleville | C Wickware, Miss H S | Port Credit |
| C Sutton, Miss E E T Swayne, W G H T Symons, D M | Towari | C Wilkins, Miss J C Willard, R II | Toronto |
| M Tallon, W F | Toronto Cornwall | C williard, K II | Hamilton |
| C Taplin, Miss M A | Toronto | V Williams, Miss K M | |
| | | V Williamson, F | Toronto |
| †Dispensation for N | | | |
| ‡Dispensation for S | ession | | |

| T Wilson, Miss A I V Wilson, Miss C E T Wilson, Miss D F N V Wilson, E H V Wilson, K R Bi | Address hapleau C Woods, J F Toronto M Wright, Miss C C Wright, Miss D Toronto C Wright, Miss D C Yphantus, G ngwood T Young, Miss I rt, Sask | H | St Marys |
|---|---|---|----------|
|---|---|---|----------|

SUMMARY-SECOND YEAR

| University College | 305 |
|----------------------|-----|
| Victoria College | 154 |
| Trinity College | 41 |
| St Michael's College | 59 |
| | 559 |

THIRD YEAR

C-University College, V-Victoria College, T-Trinity College,

| M—St Mich | ael's College |
|--|---|
| M—St Muci Name C Abbs, Miss M M Vanderson, Miss B S C Andranews J C Andraws J C Andraws J C Andraws J C Andraws J C Angus, E C Armstrong, Miss E C Armstrong C Armstrong Miss E Mown Sound Toronto V fAtkey, R C Barr, R B C Barr, R B C Barr, R B C Bart, R B C Bart, W B B C Bart, W B B C Bart, W C Bell, C C Bart, W B C Bart, W C Bell, C C Bart, W C Bell C Bart, W C Bell, C C Bart, W C Bell C Bart, W C Bell, C C Bart, W C Bell, C C Bart, W C Bell C Bart, W C Bell, C C Bart, W C Bell C Bart, W C Ba | nee's Collège Name C Budy, J M T Brillinger, E T Brillinger, |
| C Bone, Miss M E Toronto | C Class, H E Elmus |
| T Bonnycastle, C H Dauphin, Man C Booth, A K Toronto | V Cleaver, Miss H W Burlington |
| | T Clegg, Miss D M Peterborough |
| M Booth, Miss L M Toionto | M Cloutier, A L North Bay |
| C Bowman, A C Toronto | C Cochiane, G B Toronto |
| C Boyd, Miss M S R Toronto | M Coffee, Miss C M Guelpl |

| Name Home Address | Name Home Address |
|--|--|
| C Cohen, Miss E Toronto | V Gilbert, F A Fingal |
| V Cole, Miss I M Hamilton | C Gilfillan, Miss V G Orono |
| C Coleman, H R St John, N B | C Glassey, C Q Toronto |
| C Coleman, n. K. St John, N. B. | C Goforth, W W Honan, China |
| C Conboy, Miss V L Toronto C Conn, K B Toronto | C Goforth, W W Honan, China C Govan, Miss M. K L Welland |
| C Conn, K B Toronto | C Govan, Miss M. K L Welland |
| C Cook, Miss I M Cheltenham | C Gowdy, D M Limehouse |
| C Cook, Miss I M Cheltenham C Cook, Miss L E Sarnia | V Grafton, H F P Barrie |
| | V Graham, W M Toronto |
| C Copeland, P A Toronto M Costello, W. L V Cotton, Miss L H Colborne | C Grant, Miss M M Toronto |
| M Costello, W. L Ennismore | C Gray, Miss A P Toronto |
| V Cotton, Miss L H Colborne | C Grav, Miss G G Coldwater |
| V Creighton, D G Toronto | C Green, Miss E W Toronto |
| M Cronin, Miss M F Toronto | T Gregory, Miss E G St Catharines |
| | V Griffith, E N T Stratford |
| C Crossen, W V Cobourg C Crozier, Miss A E Port Perry C Cuddy, D J Amherstburg T Daly Mar M J Napage | C Groat, D L Norwich |
| C Crozier, Miss A E Port Perry | V Gundy, E M Toronto |
| C Cuddy, D J Amherstburg | C Guy, H L Toronto |
| T Daly, Miss M I Napanee | V Hagerman, Miss M A Toronto |
| M Daly, M J Farielton, Que | C Haines, Miss F L Wingham |
| W Darrier Marie C I Businesses | |
| V Davidson, Miss C I Burlington | C Hamilton, A D F Toronto |
| C Davidson, Miss M E G | C Hampson, J St Catharines |
| Mimico Beach | C Hanes, C S Willowdale |
| V Davis, Miss E A St Catharines | V Hanley, H G Milton |
| T deLom, T C B Bruce Mines | M Hannan, Miss C Toronto |
| C Denoon, Miss A 1 Toronto | C Hargreaves, Miss F I Toronto |
| C Denoon, Miss A 1 V Devitt, Miss A B Bowmanville | M Harkins, Miss M E Toronto |
| | C Harkness, Miss J W Toronto |
| V*Dickson, W I B Dundas | C Harris, Miss R C Toronto |
| V Dingman, C D Stratford | C Harris, W C Toronto C Hart, E T Belleville |
| C Dixon, R M Peterborough | C Hart, E T Belleville |
| T Docter, Miss G M Toronto | C Hart, F B Belleville C Hart, J L Toronto |
| C Donald, Miss I M Hamilton | C Hart, J L Toronto |
| C. Donaldson, Mass M. C. Toronto | V Hartwell, Miss R K |
| | Chengtu, China |
| M*Duffy, F G Hamilton | V Harvey, J M Exeter |
| C Dunbar, Miss K S Guelph | M Hayes, Miss A T Toronto |
| | M Healy, L T Atherley |
| C Elliott, Miss M E Kamloops, B C C Elsley, W B Campbellville M English Miss E M | V Hendershot, Miss G Hamilton |
| C Elliott, Miss M E Kamloops, B C | |
| C Elsley, W B Campbellyille | C Hetherington, Miss O I Toronto |
| M English, Miss E M Toronto | C Hethrington, H Toronto C Hicks, Miss J M Kars |
| M Enright, Miss M M Toronto | C Hicks, Miss J M Kars |
| V Evans, Miss F K W Toronto | V Hill, A S H Windsor C Hill, G E Toronto C Hill, Miss G E Toronto |
| | C Hill, G E Toronto |
| V Everett, Miss M L Iroquois C Ewart, Miss A H Toronto | C Hill, Miss G E Toronto |
| C Ewart, Miss A H Toronto C Fairbairn, Miss H Toronto | T Hill, L C Hespeler |
| | V Hiltz, Miss A E Toronto |
| C Farncomb, F J Toronto | C Hird, Miss E Wallaceburg |
| C Fenwick, Miss D A Toronto C Finch, R D C Toronto | V Hoidge, Miss A M Toronto |
| C Finch, R D C Toronto | V Hollinrake, H A Hamilton |
| C Findlay, D H Carleton Place | C Holmes, B Toronto |
| M Flaherty, J F Alton | C Hough, H B Amherstburg |
| C Fleming, D M Galt C Fleming, R H Toronto | M Houlahan, Miss G Toionto |
| C Fleming, R H Toronto | |
| C Fraser, Miss M A M Ottawa | V Hubbell, Miss B H Smiths Falls |
| C Gelber, E E Toronto | V Hudson, F E Toronto |
| *Michaelmas Term | |

| Name Home Address | Name Home Address |
|--|---|
| | C M. I II I C TO THE Address |
| C Hull, Miss M C Toronto | C Macdonald, L G Fort William |
| V Hunter, R S Kasio, B C | C Macdonald, L G Fort William Glencoe |
| V Hunter, R S Kaslo, B C V Hussey, L Clarkes Beach, Nfld | C. McDonnell, Miss C. Toronto |
| C Huth, Miss M 1 Stayner | |
| C Hutton, Miss S B Tilbury | M McGovern, Miss K Toronto |
| T Irvine, Miss A M Shannonville | M McGovern, Miss K Toronto C McHenry, Miss E Toronto |
| C T. d. C Shamburdhe | C McHenry, Miss E Toronto |
| C Jack, J C Toronto M James, Miss C F Toronto | V McIlroy, Miss T R Hamilton V MacInnis, Miss J H Iroquois |
| M James, Miss C F Toronto | V MacInnis, Miss J H Iroquois |
| V Jenking, Miss R I Toronto | V McKay, Miss B H Woodstock |
| V Jenking, Miss R I V Jeronie, Miss E A C Johnston, Miss D M V Junkin, W R Toronto Toronto | C McKay, D D Toronto |
| C Johnston, Miss D M Toronto | C MacKerricher, Miss A C |
| V Junkin, W R Toronto | |
| C Kaplan, Miss I S Toronto | Horizon, Sask |
| C Kaplan, Miss I S Toronto | C MacKinnon Miss M C |
| M Kastner, Miss E C Toronto | Cranbrook, B C |
| C Keast, R. W Toronto | M McLaughlin, T P Northfield |
| V Keenlevside, F. A. Regins, Sask | V McLean, Miss M D Lindsay C McLean, Miss R M Toronto |
| C Keens, Miss M M Toronto | C McLean, Miss R M Toronto |
| M Kehoe, Miss C E Bolton | T M-I Mark 7 I December |
| | T McLennan, Miss E Z L Beaverton |
| C‡Kellman, Miss H A | |
| Barbados, B W I | C McLeod, G P Toronto |
| V Kendrick, T D Toronto | V McMullen, Miss F G Belleville |
| T Kister, C V Chippawa T Klachn, J O Stratford V Klings, J I Toronto C Kenen, I L Toronto Lindsay T Kister, C V Chippawa T Klachn, J O Stratford V Klink, I I Elevie | C McMurchie, Miss J Clinton |
| M Kingsley, Miss N Lindsay | M McNally, Miss K E Utterson |
| T Kister, C V , Chippawa | M Makes I A Abertonia |
| T Klachn, I O Stratford | M Mahon, J A Aberfoyle |
| I Klaenn, J U Strationa | C Maier, C J Hamilton |
| V Klinck, I J Elmira | M Mahon, J A Aberfoyle C Maier, C J Hamilton M Marks, Miss M Hamilton |
| V Klinck, I J Elmira C Kniveton, Miss M J Toronto | M Martin, P J J Pembroke |
| V Knox, Miss K D Toronto | M Martin, P J J Pembroke M Martin, W.S Whitehorse, Yukon V Mason, T G Toronto |
| C Koskey, K Hamilton | V Mason T G Toronto |
| V Lane, W S Toronto | C Matthews, A S Toronto |
| V Langford, H E Calgary, Alta | C Mayhew, Miss A E Huntsville |
| M Larochelle, Miss B V Ottawa | C Maynew, Miss A L Truncsvine |
| | C Melhuish, Miss G I Toronto |
| C Lash, K M Toronto | V Miller, F C Stratford V Mills, R S Toronto |
| M Latchford, Miss D Toronto | V Mills, R S Toronto |
| C Latchford, J S Toronto | C Minden, H A Hamilton C Mitchell, Miss P Toronto |
| C Latchford, J S Toronto C Lawson, F S Toronto | C Mitchell, Miss P Toronto |
| C Lawson, J S Guelph T Lazier, H D F Hamilton V Lewis, L H Oxbow, Sask | T Mitchell, Miss R H Lucknow C Monypenny, Miss C F Toronto |
| T Lazier, H D F Hamilton | C Monypenny, Miss C F Toronto |
| V Lewis, L H Oxbow, Sask | M Moore, Miss C B Toronto |
| C Liggett, M J Guelph | C Morden, Miss E D Hamilton |
| V Lindsay, E H Hagersville | T Morrison, C M Vancouver, B C |
| V Linusay, E II Hagersville | T Morrison, C M Vancouver, B C |
| C Lindsay, Miss M M L Kenirew | C Morwick, Miss I Hamilton |
| C Lippert, H J Kitchener | C Murphy, Miss M A Wardsville |
| C Lindsay, Miss M M L Renfrew C Lippert, H J Kitchener C Little, W Teeswater | M Murtha, T J Toronto |
| C Littlejohn, R H Toronto V Livermore, E S Clinton | C Murphy, Miss M A Wardsville M Murtha, T J Toronto C Nichol, Miss F I Durham |
| C Littlejohn, R H Toronto V Livermore, E S Clinton | V Norman, Miss G L Mitchell |
| C Locheed Miss I I B Hamilton | C Norsworthy, Miss H A |
| C Locheed, Miss I J B Hamilton C Lyall, Miss J E | St Thomas |
| None of the Taba | |
| Niagara-on-the-Lake | V Oaks, Miss B R Preston |
| M Lyons, J J Ottawa | M O'Boyle, B J Dundas |
| C McAllister, S Toronto | M O'Brien, J E Hamilton |
| C McBride, Miss M E Smiths Falls | |
| M Lyons, J J Ortawa C McAllister, S Toronto C McBride, Miss M E Smiths Falls C McClure, A D Chesley | T Ormsby, Miss N A Toronto |
| C McCullagh, P F Cobourg | V Orr, W R Glencairn |
| C McClure, A D Chesley C McCullagh, P F M MacDonald, J A Aurora | M O'Sullivan, Miss M B Hamilton |
| Dispensation for Session | |
| +12/15/PETISACION TOL SESSION | |
| | |

| Name, C Pauge, F H C Pauge, F H C Pauge, F H C Pauge, Miss M K V Parter, Miss M K V Parter, Miss M K C Pauge, Miss M K M K M M K M M M M M M M M M M M M | C Sheepjerson, Miss N F Toront C Shortli, Miss T R V Shater, Mass P E V Smith, Miss C R V Smith, Miss C S Shater, Miss C Smith, Miss G S V Smith, Miss G S S Smith, Miss G S S Smith, Miss G S S S Smith, Miss G S S S Smith, Miss G S S S S Smith, Miss G S S S S S S S S S S S S S S S S S S |
|--|--|
| C†Ross Miss E Toronto | C Stubbs, Miss B E Toronto |
| C Ross, Miss M T Brussels C Ross, Miss P A Hawkesbury V Rowell, Miss M Toronto M Runstadler, Miss M Toronto | M†Theobald, J C Peterborough |
| N. Rusal, E. W. Toronto V. Rutnam, R. L. Toronto C. Salter, P. E. Toronto C. Saul, Miss M. E. Toronto V. Schlichter, Miss N. M. Bright C. Schmudt, Miss E. M. Stratfold C. Schut, C. B. C. Toronto C. Schuddek, H. E. London, Eng M. Slannon, Miss C. A. Biscotasing | V Inompson, Miss F L Toronto C Thomson, Miss J Toronto T Thomson, J H Rothesay, N B M Thomson, V A Toronto C Thorburn, Miss M T Niagara Falls |
| M Sharpe, G V Toronto | C*Thorold, Miss M A Toronto C Tilley, E P Bowmanville |

†Dispensation for Session †Dispensation for Michaelmas Term *Michaelmas Term

| Name C Trent, Miss E F C Troop, Miss E J C Troop, Miss E J V Turnbull, R I E V Vanderburgh, F R V Vanderburgh, F R C Ventry, Miss B C Wellace, Wiss B C Wellace, W C C Weber, W C C Wellace, W C C W | Toronto Giand Bend Goderich Kamsack, Sask Burgessville Toronto Toronto Lindsay Weston | Name C West, Miss P M V Westington, M M V Westington, M M C Whaley, A C M Whelan, J H G M C White, M G M C Whitfield, H G G C White, R G V Williams, N M E M V Williams, P E T Wilson, Miss A D C Wood, M M C Whitfield, M M C Wilson, M M C Wood, M M C W C Wood, M M C W C W C W C W C W C W C W C W C W C W | St Marys Toronto St Marys Toronto Duncan, B C Seaforth Toronto Toronto Millbrook Toronto Toronto |
|---|---|--|--|
| | | | |

SUMMARY-THIRD YEAR

| University College | 244 |
|----------------------|-----|
| Victoria College | 114 |
| Trinity College | 24 |
| St Michael's College | 50 |
| Total | 432 |
| | |

FOURTH YEAR

| C—University College, V—Victo M—St Mich | oria College, T—Trinity nael's College | College, |
|--|---|--|
| Name V Adams, Miss N G V Adams, Miss N G C Allison, Miss J L Walkerville C Anderson, Miss C E C Anderson, Miss C C Arman, Miss M L V Attridge, C G V Augustine, Miss H V Attridge, C G V Augustine, Miss H V Attridge, C G V Adama, Miss R V Attridge, C G V Augustine, Miss H V Attridge, C G V Augustine, Miss H V Attridge, C G V Augustine, Miss H V Colborne C Bard, Miss K V Chatham *Michaelmas Term | Name C Baldwin, R W M Barnett, L F M Bauer, Miss A M T Beaumont, H T Bell, J A M C Bell, W Miss E I T Bettes, Miss H T J V Blum, W O C Bonnell, F H | Home Address Toronto St Catharines Waterloo Glen Williams Humberstone Britannia Bay Mille Roches acksonville, Fla Owen Sound Fernie, B C |
| | | |

| Name Address Benupton Conversion of Control, Mass G C Brown, Mass J M C Brodke, Mass J M C Brodke, Mass J M C Brocke, Mass L C C C C C C C C C C C C C C C C C C | Name Address Mass M B St. Thomas C Edwards, Miss M B St. Thomas C Edwards, Miss M S M S M Edwards, Miss M S M S M Edwards, Miss M S M S M S M S M S M S M S M S M S M |
|--|--|
| C. Doig, W.P. Wroyster | C Halmes, J A Halford, Miss K M C Hambly, Miss D S C Hampson, Miss D S C Hampson, Miss D S C Harris, Miss L A Toronto C Harris, Miss L A Toronto C Haste, W J A Toronto C Harris, Miss L A Toronto Toront |
| †Dispensation for Michaelmas Term | C Haywood, K D Toronto |

| Name Home Address | Name Home Address |
|--|---|
| T Hazlewood, Miss A L | C McConnell, Miss K Toronto |
| , Bowmanville | M McCormack, Miss I M |
| C Hewetson, H W Vancouver, B C C Higgins, Miss E A Clinton | Battleford, Sask |
| C Higgins, Miss E A Clinton | C McCready, Miss M L Toronto |
| V Hilliard, Miss A M Morisbuig C Hilliard, T A Kitchener | C McCreary, Miss F K Wallaceburg |
| C Hilliard, T A Kitchener | C McCubbin, Miss C A Chatham |
| C. Hislon, Miss E. B. Strattord | C McCulley, I St Thomas |
| C Hislop, Miss E E Toronto V Hope, H B Milliken | C. McCullough, W.S. Toronto |
| V Hope, H B Milliken | C*MacDonald, C C Musrkirk |
| C. Hornal, I Murkirk | C*MacDonald, C C Murkirk C Macdonald, Miss I M Markham |
| V Hope, H B Minikark C Howard, B W Ottawa C Howell, Miss M K Tronto C Huband, A R Ottawa C Hugili, H R Toronto C Hunter, Miss A B C Hurter, Miss A B Alliston V Hutcheson, Miss M M Tronto | M MacDonald, T A Toronto |
| C. Howell, Mass M. K. Toronto | C McElroy, Miss E L M Ottawa |
| C Huband, A R Ottawa | C McFadden, A P Sault Ste Marie |
| C Hugill, H R Toronto | M McGahev, I E Toronto |
| C. Hunter, Mass A. B. Toronto | M McGahey, J E Toronto C McGeachy, Miss M A Sarnia |
| C Hurst, Miss H I Alliston | C McGregor, Miss H J Caledonia |
| V Hutcheson, Miss M M Toronto | C McIntosh, G A Guelph |
| | V McKay, Miss G H Toronto |
| C Hwang, L China C Hyde, J Pincher Creek, Alta | C McKay, W S St Thomas |
| C Hyde, J Pincher Creek, Alta C Innes, Miss J B Toronto | C McKenzie, L M Guelph |
| M Irvine, Miss E A Toronto | M McKeon, F J Hamilton |
| M Irvine, Miss E A Toronto V Irwin, Miss I F Toronto | C Maclaren, Miss I D Brockville |
| V Jackson, Miss D B Toronto | C Maclaren, Miss J D Brockville C McLean, J L Ottawa C McLeod, Miss C. G Toronto |
| C Johnston, J Toronto | C. McLeod, Miss C. G. Toronto |
| V Johnston, Miss M W Hamilton | C McNichol, Miss D E L Toronto |
| V Jones, Miss V I Parry Sound | C MacRae, F J Toronto |
| M Kavanagh, Miss A. M. | C McNichol, Miss D E L Toronto C MacRae, F J Toronto C Mahoney, Miss H L Guelph |
| Penetanguishene | V Maitland, Miss J A B Toronto |
| C Keenleyside, Miss H A | C Mallon, J G Toronto |
| Regina, Sask | C Mallon, J G Toronto C Manson, Miss K R Toronto |
| C Keith, W S Toronto | C Matenko, P Toronto |
| C Keith, W S Toronto C Kelly, J G Toronto | C Matthew, Miss D A Georgetown |
| C Kelso, M M Toronto | V Matthews, N W Rockwood |
| T Kember A K Creemore | C. Maywell, Miss I G St Mary's |
| C Kennedy, Miss E I Toronto | C Maybee, G E Port Credit |
| C Kennedy, Miss E J Toronto V Kirby, F B Toronto | C Maybee, G E Port Credit C Meen, H Toronto |
| V Kitching, O C H Woodstock | V Metzler, S Napanee |
| C Knowles, M188 M V Sarnia | C Miller, W R Toronto |
| V Kitching, O C H Woodstock C Knowles, Miss M V Sarnia C Krieger, Miss C Toronto | T Mitchell, D R Oshawa |
| | V Mix, I W Ottawa |
| C Lane, Miss A M Orangeville | V Moir, Miss K V Ovbow, Sask |
| M LeBel, E C Toronto | V Monkman, Miss O Toronto |
| M Lee, E G Toronto | V Moody, Miss M E |
| V Lennox, A M Shallow Lake | Winnipeg, Man |
| V Little, Miss R M Dundalk | V Moores, H Blackhead, Nfld |
| V Long, E E Woodstock | C Morgan, L S Toronto |
| V Longworthy, Miss D L | C Morrell, C A Hamilton |
| Regina, Sask | C Mowat, W H Peterborough |
| C Lowden, Miss J G Toronto | M Mulvihill, Miss LE Arnonor |
| C. Luxton, I H Tessopville | M Mulvihill, T C Arnprior |
| M McBrady, Miss L Toronto | V Mundy, Miss L E Toronto |
| M McBrady, Miss L C McBride, Miss S M C McCall, Miss M D V McColl, D B | M Murray, Miss E M Birchcliff |
| C McCall, Miss M D Simcoe | C Mustard, Miss E M Chatham |
| V McColl, D B Regina, Sask | C Mutchmor, H A Hamilton |
| C McConkey, Miss E A M Toronto | V Noble, T D Toronto |
| *Michaelmas Term | |
| | |

| The Prichard, Miss M R Ottawas C Tast, C B. To Amabottom, Miss M S Conn C Red, Miss B M S Conn C Red, Miss B M S Conn C Red, Miss B M S Conn C Thompson, Miss M S Conn C Red, Miss B M S Conn C Thompson, Miss M S Conn C Thompso |
|--|
| C Sminn, Miss F M C Spence, Miss F M C Spence, Miss M C Spence, Miss B C Stanley, A C Steen, Miss E G Toronto C Steen, Miss E G Toronto C Zybach, Miss M P Ningara F |

SUMMARY—FOURTH YEAR University College

| University College | 190 |
|----------------------|-----|
| Vietoria College | 91 |
| Trinity College | 17 |
| St Michael's College | 37 |
| | - |
| Total | 335 |

OCCASIONAL STUDENTS

OCCASIONAL STUDENTS C-University College, V-Victoria College, T-Trinity College, M-St Michael's College, U-University of Toronto

†Easter Term §Duplicate Registration

| Name U Kehoe, F Wungham U Kehoe, F Wungham U Kehoe, E C E U Klott, Musa N Cuelph C SLarochelle, Mass B V Cottawa U Kramer, Musa H M F C SLarochelle, Mass B V Cottawa U Kramer, Musa H M F C SLarochelle, Mass B V Cottawa U Leicrow, A C Broad Cue, Miss E M Tronnto U Leforow, A C Broad C Slarochelle, Mass B W C MacVillan, C J U McCottawa U Luke, Musa S M U Kleicrow, A C Broad C SMcGnaner, C J C MMCDonnell, A J C MacVillan, Musa C R C MacClarin, Musa C R C MacClarin, Musa C R C MacQuatrie, Musa M Toronto C Messery, Mis E C Messery, Mi | V Sheda, G A C Shulta, Mas J C Shulta, G A C Torano, G I C Toran |
|--|--|
| University of Toro | nto 62 |
| University College | 66 |

| Iniversity of Toronto | 62 |
|-----------------------|-----|
| Iniversity College | 66 |
| /ictoria College | 18 |
| rinity College | - 8 |
| t Michael's College | 6 |
| | |

160

Total

*Michaelmas Term †Easter Term §Duplicate Registration

DEPARTMENT OF UNIVERSITY EXTENSION

SUMMER SESSION, 1923

| | | 2001011, 2023 | |
|---|--|--|---|
| Name: Ames, V N Andrews, Mass E L Balesr, L L Balesr, | Home Address Hamilton Sincee Toronto Toronto Toronto Toronto Toronto Toronto Toronto Brantford Okagary Toronto Address Toronto Toronto Brantford Okagary Toronto Toronto Toronto Toronto Toronto Markham Toronto Hamilton Hamilton Hamilton Toronto To | Name McNabb, A P McPherson, Miss S H | Home Address Toronto Raphaels West Milliken Newcastle Toronto Drumbo Feversham Toronto Hamilton Peterborough Caledona's Toronto Sarkham Port Perry Toronto Napanee Agnoourt Toronto St Maryae Toronto |
| Crosby, Miss M E B | | | Toronto |
| Coutta, Miss M I | | Perrin, Miss M W | Toronto |
| Crosby, Miss M E B | | Pike, A B | Toronto |
| Cross, Miss J I | Toronto | Porter, W A | Toronto |
| Dawson, B B | Millbrook | | |
| Dawson, Miss V M | | Raymond, Miss U | loronto |
| | | | |
| | | | |
| Dodds, Miss H M | | | |
| Duignan, Miss J W | | | |
| Edwards, ri W | | | Smithvine |
| Elliott, A Fi | | CL I II | |
| Emoti, F W | | Snort, J ri | |
| Feasoy, n. G | | Stanborn I F | S+ Moure |
| Penton, J J | | Stephens, J.E. | |
| Come I M | | Sutton H P | |
| Garbutt, E P | London | Thompson, Miss J A | V Parkhill |
| Garrett, N P | Auburn | Toll, C E | Blyth |
| Garrett, IV I | Toronto | Torrance, T M | Toronto |
| Gibson, J. A. Gignac, Miss I. Z. | Windsor | Tovell, W V | Kincardine |
| Glave, Miss E J | Brantford | Tryon, Miss M J | Priceville |
| Gray, H F | Toronto | Tuer, Miss M | Port Hope |
| Haig, A P | Toronto | Turner, Miss O M | Toronto |
| Harris, H W | Ripley | Tustin, Miss E A | Toronto |
| Harris, Miss L M | Port Perry | Wagg, J C | Mount Dennis |
| Howie, Miss M F | St Catharines | Walker, Mass L M | Toronto |
| Johnston, Miss H A | Toronto | | Toronto |
| Kennedy, Miss H E | Princeton | Watt, J H | Toronto |
| Lemay, Mrs G A | Grimsby | Wen, Miss I M | |
| Lusty, E H | Rodney | Wilker, M J | Claremont |
| Lynch, Miss R A M | Toronto | Wilson, Miss B C | Ningara Falls |
| McEwen, F A | Toronto | Wilson, Miss M K | Clarence |
| | | | |

OCCASIONALS

| Name Abernethy, Miss J Acland, Mrs M L D Attken, G Bigelow, P J Bolingbroke, H Bush, J A Duff, Miss A I Eames, Miss F M Elliott, W H Howarth, Miss M W Lavis, D More C F | Home Address Beeton Toronto Toronto Orono Hamilton Toronto Toronto Toronto London St Thomas Port Whitby | Sharpe, C T Silcox, J B Stobie, Miss C L Switzer, Miss J E Tolhurst, F E Wallace, F E D West, Miss J R | Toronto Toronto Biantford Toronto |
|--|---|--|--|
| Martin, Miss G E Meen, H | Toronto Toronto | West, Miss J R Williams, W Winchester, H S | Newbury Ottawa |

TEACHERS' CLASSES

TORONTO

| | LORG | OI NO | |
|--|-------------|--|--------------|
| Name He | ome Address | Name | Home Address |
| Allan, Miss J L | Toronio | Kammerer, Miss H | Toronto |
| Anderson, Miss K M C | Totolilo | | |
| | Toronto | Kearney, Miss W A | Toronto |
| Armstrong, D W | Toronto | Kell, Miss C L | Toronto |
| Arthur, Miss L. M. | Toronto | Kerrush, H B | Toronto |
| Baker, L L | Toronto | Lang, Miss R B | Toronto |
| Beacom, E C | Toronto | Langdon, R Lavery, W G | Toronto |
| Biggart, J R Black, H C | Swansea | Lavery, W G | Toronto |
| Black, H C | Toronto | McCool, Miss A C | Toronto |
| Boucher, G R | Toronto | McCredie, E C | Toronto |
| Bremner, H A | Toronto | McEwen, F A. | Toronto |
| Briggs, J B | Toronto | McGregor, B | Toronto |
| Cameron, R | Toronto | MacInnes, Miss E M MacKay, Miss M M | Toronto |
| Campbell, G T | Toronto | MacKay Miss M M | Toronto |
| Code I A | Toronto | MacTavish, Miss F | Toronto |
| Code, J A Cole, R G | Toronto | McNabb, A P | Toronto |
| Cork, S F | Toronto | Macklin, G E | Toronto |
| Cork, S F | Toronto | Mackini, G E | Toronto |
| Cornwall, Miss C F | Toronto | Magee, Miss C H | Toronto |
| Crone, Miss M | Toronto | Malcolm, Miss M J | Toronto |
| Crosby, Miss M E B | Markham | Manders, C | Toronto |
| Cross, Miss I I | Toronto | Manning, C E Martin, Miss K E | Toronto |
| Cummer, Miss E M | Oshawa | Martin, Miss K E | Toronto |
| Davidson, Miss A M | Toronto | martin, i ri w | Weston |
| Davidson, Miss N E | Toronto | Mason, A. A. | Toronto |
| Devitt, L K | Toronto | Matthews, H L | Toronto |
| Dickinson, G H | Toronto | Merritt, R L | Toronto |
| Dickson, A. C. | Toronto | Mitchell, I II | Toronto |
| Doupe, H A | Port Credit | Merritt, R. L. Mitchell, J. II Moncrieff, Miss M. R. | Toronto |
| Eby, H E | Toronto | Moore, H. C. | Toronto |
| Elliott, A H | Toronto | Newton, L W Nicholson, R W | Toronto |
| Elliott, F W | Toronto | Nicholson R W | Toronto |
| Evans, A G | Toronto | Nixon, D A | Toronto |
| Footby H C | Toronto | Norris, D A | Toronto |
| Feasby, H G Fritz, W E | Toronto | Pamphilan Miss I | Toronto |
| Game, J M Garbutt, E P Gibson, J A Groom Miss M R I | | Pamphilon, Miss I Parker, H T | Toronto |
| Game, J IVI | Toronto | Date F C | Toronto |
| Garbutt, E P | Toronto | Patten, F G Perrin, Miss M W | Toronto |
| Gibson, J. A. | Toronto | Perrin, Miss M vv | Toronto |
| Oliggi Hams In 23 J | Toronto | Pike, A B | Toronto |
| Haig, A P | Toronto | Porter, W A | loronto |
| Hancock, E W | Toronto | Prosser, T Quinn, Miss M. G | Toronto |
| Harris, H W | Toronto | Quinn, Miss M. C. | Toronto |
| Hartwick, W E | Toronto | Ramsden, F C | Toronto |
| Hawkes, Miss R A | Oshawa | Raymond, Miss U | Toronto |
| Haydon, C W | Toronto | Reesor, Miss E G | Markham |
| Heinbecker, E G | Toronto | Reynar, Miss F C | Toronto |
| Henderson, J M | Toronto | Richardson, S | Toronto |
| Hewitt, B H | Toronto | Robb, I M | Toronto |
| Hooker, W V | Toronto | Robinson, Miss M A | Toronto |
| Houston, W J | Toronto | Ross, A M | Toronto |
| Howitt, C | Toronto | Rutherford, G C | Toronto |
| Hunter, A C | Toronto | Sager, E | Toronto |
| Jackson, Miss H K | Toronto | Scanlon, Miss M G | Toronto |
| Johnston, Miss H A | Toronto | Scott, Miss O M | Toronto |
| joiniaton, alias H. A. | A OI OILLO | Deore, mass O m | rotonto |
| | | | |
| | | | |

| -0 | | | |
|---|---|---|--|
| Name Short, J H Short, J H Susson, Miss D T Smith, C R Spearin, Miss C M Springate, Miss E B Squire, E V Sutton, H P Toll, C E Torrance, T M Tryon, Miss M J | Home Address Toronto | Name Turner, Miss O M Walker, Miss L M Walling, W L Watson, S A Waugh, Miss A M Waugh, Miss H J Weir, Miss I M White, A G Will, G Will, G | Home Address Toronto |
| | Occasi | ONALS | |
| Belcher, A B Biggart, Mrs E M Burrows, Mss M W Cropper, R E Dowdall, Miss B Fenton, Miss M Finley, Miss M L Floyd, Miss E M G Foster, Miss C P Johnston, Miss R W | Toronto Swansea Toronto Toronto Toronto Toronto Toronto Toronto Toronto Toronto Toronto | MacEachern, Miss E Marsters, Miss L M O'Meara, Miss K Parkinson, C N Prime, L W Reid, Mrs H O Stewart, A G Stone, R J Stover, I Wallace, F E D | V Toronto |
| | Нам | LTON | |
| Ames, V. N. Colling, L. J. Dodds, Mass H. M. Dugnan, Miss J. M. Duugnan, Miss J. M. Gignac, Miss I. Z. Hinchliffe, Miss W. Howe, Miss M. Kenncdy, Miss H. E. Keys, G. P. Klinck, G. A. Laurie, Miss B. M. Lemay, Miss B. A. | Hamilton | Meuser, Miss O M Ptckering, J R Pothier, Miss K A Reding, G F Sabine, Miss M F Smith, C B Stewart, Miss L A Tatham, Miss B Troup, Miss M Ward, Miss D E Wilde, L C Wilson, Miss M A Witherspoon, Miss E | Hamilton Hamilton Hamilton Hamilton Hamilton Hamilton Hamilton Hamilton Dundas Hamilton Hamilton Grimsby Hamilton Hamilton |
| | Occasi | ONALS | |
| Bauer, Miss B M Byrne, Miss F S Corwin, Miss E Cummings, Miss Farmer, Miss F Hall, Miss H Hodd, Miss E M Jamison, Miss M B Joyce, Miss L C | Hamilton Hamilton Hamilton Hamilton Ancaster Hamilton Hamilton Hamilton | Kappele, Miss E Lee, C S McKenzie, Miss B Matches, Miss M R Mullens, Mrs G Pasmore, Mrs M Richardson, H S Stewart, Miss I M Truscott, Miss R I | Hamilton Hamilton Hamilton Hamilton Hamilton Hamilton Hamilton Hamilton Hamilton |

ST CATHARINES

| Appel, Miss V F Cook, Miss M E R | St Catharines | Howie, Miss M F | St Catharine |
|-------------------------------------|---------------|------------------|--------------|
| ook, Miss M E R | St Catharines | O'Connor, Miss K | St Catharine |
| Dawson, Miss V M | St Catharines | Wilson, Miss B C | Nagara Fall |
| farris, Miss F E | St Catharines | Voung Miss I C | St Cathorne |

OCCASIONAL

| OCCASIONAL | | | | |
|---|---|--|-------------------------------|---|
| Name Brennen, Miss L M Cameron, Mrs C Carnochan, Miss G, Cohen, Miss L J Creed, Miss C Curuckshank, Miss V Cuffc, Miss E Dawson, Miss E Dawson, Miss E Duff, Miss E A Hoople, Miss A MacKay, Miss D | Home Address Port Dalhousic St Catharines | Name Marque, Miss M S Maxwell, Miss A Partridge, Mis R Ratcliffe, Miss M C Ruggins, Miss L Kobinson, Miss B L Seaman, Miss B L Shannon, Miss S S Sutherland, Miss L G Taskei, Miss M M Yawman, Miss M M Yawman, Miss M M | St | me Address Catharines |
| | | | | |

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| | 11 | |
|-------------------------|-----|--|
| Teachers' Classes | 22 | |
| Duplicate Registrations | · l | |
| Total | 28 | |
| | | |

SUMMARY IN THE FACULTY OF ARTS

| | University of Toronto | UNIVERSITY | VICTORIA COLLEGE | TRINITY COLLEGE | Sr Michael's College | Toral |
|--|--------------------------|--------------------------------|-------------------------------|---------------------------|---------------------------|---|
| First Year Second Year Third Year Fourth Year Occasionals Teachers' Course Summer Session Duplicates | 62 221 119 78 | 345 305 244 190 66 | 162 154 114 91 18 | 36 41 24 17 8 | 41 59 50 37 6 | 584 559 432 335 160 221 119 79 |
| Totals . | 324 | 1149 | 539 | 126 | 193 | 2331 |

FACULTY OF MEDICINE

FIRST YEAR

| Name | Home Address | Name | Home Address |
|---------------------------------|----------------|--------------------|-----------------|
| Aiken, S | Toronto | Jackson, M188 M V | Toronto |
| Andarran I I M | Port Hope | Johnston, C R K | Toronto |
| Anderson, J L M Andrews, F A | Aurora | Johnston, W H | Chatham |
| Andrews, F A | | | Toronto |
| Ansley, H A | Rydalbank | Katz, S | Loronto |
| Appel, A | Toronto | Kelly, M J | Creighton Mine |
| Armstrong, A R | Oakville | Lavine, B | Toronto |
| Ashenhurst, A E | Toronto | Lewin, G W | |
| Avruskin, B | Salem | Stamford | i, South End PO |
| Bailey, Miss M E | Maple | Logan, G E C | Niagara Falls |
| Baldwin, Miss K W | Toronto | Lymburner, R | Hamilton |
| Ball, N I | Vernon, B C | McClinton, Miss I | Terra Nova |
| | Toronto | Macdonald, G | Terra Tiora |
| Batt, Miss M F | Upper Hamilton | macquiaiu, G | Lewis, Scotland |
| Baxter, K R | | | |
| Beasley, W W | Sandwich | McIntyre, A F | Owen Sound |
| Bradshaw, Miss P E | Windsor | McTavish, W A. | Toronto |
| Bryant, E C | Toronto | Miller, H G | Galt |
| Burton, Miss B E | Toronto | Mitchell, R. M. | Honan, China |
| Calder, R G | St Catharines | Moffat, F W | Weston |
| Cohen, A | Toronto | Moffatt, I | Port Arthur |
| Cohen, I | Toronto | Nicholson, R E | Waterdown |
| Cosens, Miss M | Wingham | Northey, R W | Fenelon Falls |
| Cosens, Miss M | Toronto | Overholt, A. A. | Brantford |
| Denoon, J M | | | Port Credit |
| Doney, E H | Toronto | Peer, R J | |
| Dorland, C | Burkton | Perfect, K E | Toronto |
| Eckert, L C | Agassız, B C | Pollack, B | Toronto |
| Edsall, M C | Leamington | Railton, S V | Ayı |
| Epstein, M D | Toronto | Reiss, H | Toronto |
| Fallon, J A | North Bay | Richardson, Miss G | I Toronto |
| Ferreira, S E L | | Robinson, R B | Toronto |
| Duncans. | Jamaica, B W I | Ross, J H | Toronto |
| Gardi, V A | Sault Ste Mane | Rossiter, J. H. | Sault Ste Marie |
| Gee, Miss E A | Gormley | Russell, W G | Millbrook |
| Glassey, D W | Toronto | Salkin, D S | |
| Cauld I | Toronto | Saunders, W H | Toronto |
| Gould, J | Owen Sound | | Toronto |
| Grant, G H | | Sinclair, B L | Lansing |
| Grant, Miss M H | Toronto | Smillie, I G | New Toronto |
| Greig, C H | Toronto | Snell, F Van V | Toronto |
| Greig, F M | Toronto | Sniderman, S | Toronto |
| Gundy, C L | Toronto | Stanton, O L | Toronto |
| Gundy, J E | Windsor | Steele, F H | Dunsford |
| Hamill, A.S. | Toronto | Turner, W A | Hamilton |
| Hamill, A.S. Hardie, P.W. | Esquimalt, B C | Ungaro, D | Toronto |
| Harris, E R | Burlington | Vanderveer, Miss H | L Toronto |
| Hawkins, A R | Gueloh | Walker, A H | Allandale |
| Hillery, D. R. | Toronto | Wallace I W | |
| Howell, P T | Oshawa | Wallace, J W | Goderich |
| Ing, Miss M C | | Whaley, J B | Toronto |
| Ireland, P E | Toronto | White, C A | Fencion Falls |
| reand, r E | Toronto | Wilensky, Miss B | Toronto |

Name Willett, A W Wilson, G E D Wood, G S Woodland, L A Home Address Toronto Weyburn, Sask Toronto Toronto Name Wright, J W Yuill, B Ziegler, H R

Home Address Campbellcroft Gilbert Plains, Man Brantford

SECOND YEAR

Angus, L R Toronto Bassingthwaighte, Miss M F Sault Ste Marie Beach, M L Belt, T H Toronto Toronto Bone, Miss M E Toronto Boyle, W G Belwood Brooks, E F Toronto Brown, J E Brown, R F Niagara-on-the-Lake Toronto Brown, W G Toronto Brownson, C A Campbell, D M West Belleville Toronto Carswell, J A Caswell, J W Cleghorn, R A Toronto Toronto London Craw, Miss C H Fergus Cumnungs, E A Dawson, H S Thornbury Toronto Denoon, J W Duff, G A. Toronto Drayton Fisher, A J Gleeson, T H Grafton, H F Gray, K G Stratford Napanee Barne Toronto Greig, J W A Guest, W A Seaforth Ottawa Haight, Miss R K Waterloo Hall, Miss M E Toronto Hall, M M R Hall, W E B Brampton Lindsay Harvey, J M Hawkins, S J Healy, D E Exeter Toronto Toronto Hethrington, H Hills, W H Toronto Toronto Hoare, D S Toronto Hookings, C E Horkins, H A Nelson, B C Campbellford Hough, H B Amherstburg Hutner, L M James, J W Toronto Toronto Johnston, J. F. A. Johnstone, Miss R. A. Toronto Chatham Keenleyside, E A Regina, Sask Kelly, J H Collingwood Kemp, D L Forest Kenrick, T D Toronto Kilpatrick, O A Toronto

Kirkpatrick, G M Vancouver, B C Kirkpatrick, T C Kitchen, I D Toronto Toronto Laird, Miss M D Toronto Toronto Laird, R C Large, G C Toronto Lawson, F S Toronto Leeder, F S Leef, C D S Battleford, Sask Toronto Lewis, L H Oshawa Lindzon, M Lucas, T A Toronto Sarnia Lyons, J C Cheltenham McCollum, J L Toronto MacFadyen, D A Toronto McGillivray, J R Hamilton MacKechnie, G S Mackechnie, H A MacLean, K A Toronto Vancouver, B C Harriston MacLean, M S Toronto McMurray, E M Macrae, H M Master, W M Niagara Falls Victoria, B C Windsor Menzies, Miss I R Toronto Meredith, R H Vancouver, B C Moore, E A Clarksburg Mullen, L M Toronto Muscovitch, H A Toronto Narofsky, S Paterson, J A Toronto Ingersoll Pollack, J Price, F G Prior, J S Toronto Toronto Coldwater Reinhorn, A J Toronto Robertson, H F Toronto Robertson, J R Roos, Miss P M E Gravenhurst Waterloo Runstadler, Miss M Toronto Rykert, H E Dundas Shannon, J G St Catharines Sharfatz, G Hamilton Sharp, Miss R C Beaver Lodge, Alta Shier, J W Vancouver, B C Spackman, R H St Thomas Stanbury, R G Campbellford Stevenson, C K Stogdill, C G Stroud Toronto Thompson, Miss M J Deseronto Ticktin, P A Toronto

| 30 | APP | ENDIX | |
|--|--|---|---|
| Name | Home Address Bowmanville Vancouver, B C Toronto Weston Toronto | Name | Home Address |
| Tilley, A. R. | | White, R. G. | Moose Jaw, Sask |
| Turnbull, F. A. | | Williams, P. E. | Toronto |
| Wallace, W. M. | | Willinsky, B. | Toronto |
| Walwyn, J. P. | | Woods, W. L. | Toronto |
| White, G. B. | | Young, A. E. | Toronto |
| | THIRD | YEAR | |
| Aberhart, W Ackland, W E Archibald, D A Armstrong, J P Armstrong, L T Berry, B H Bier, L B | Seaforth Ottawa Elora Ottawa Port Credit Toronto Brantford | Grant, R C Green, W M Greey, P H Hamilton, F B Harnick, I Heffering, R J Hershey, J M | Toronto Embro Toronto Toronto Toronto Toronto Toronto Toronto |
| Borrowman, R E | Toronto | Hilliard, Miss A. M. | Morrisburg |
| Bowers, N H | Massey | Hoffman, B. | Toronto |
| Bronstein, N W | Toronto | Huddart, Miss V. G. | Toronto |
| Brown, J A | Regina, Sask | Hutton, D V | Brantford |
| Browne, W A | Toronto | Jackson, G H | Port Perry |
| Bull, H T | Holland Centre | Jeffries, C N | Toronto |
| Cairo, Miss M R | Toronto | Jones, A H | Toronto |
| Campbell, A J | Owen Sound | Kazdan, L | Toronto |
| Campbell, C A L | Toronto | Keith, W S | Toronto |
| Campbell, I P | Grand Valley | Kelly, J A | Long Branch |
| Cannell, D E | Port Carling | Killoran, V A | Peterborough |
| Case, G L Charkoff, I L Chesney, W E Clarke, L A | Toron to | Kinsman, R H | Hamilton |
| | Toron to | Laidlaw, J B | Toronto |
| | Burford | Lambert, A G | Beaverton |
| | Toron to | Linton, F D | Port Credit |
| Colley, A K | Toronto | Little, W R | Trenton |
| Craven, A I | Guelph | Lloyd, P F | Brewer's Mills |
| Crowther, T A N | Ingara-on-the-Lake | Macdonald, Miss I | M Markham |
| Curry, D | Trenton | McFarlane, G M | Saskatoon, Sask |
| Davidson, J H | Jarvis | McGibbon, K C | Toronto |
| Dillane, J G R | Newmarket | MacNicoll, W T | Hamilton |
| Dinwoody, W A | Cookstown | MacNiel, A C | Oakville |
| Dinwoody, W A Douglas, L H Edwards, H E Elhott, H R | Norval Listowel Hamilton | McNiven, E L Macklin, L A Mark, E C H | Victoria, B C Goderich Iong Kong, China |
| Farmer, A W | St Catharines | Marritt, H D | Keswick |
| Ferguson, C R | Fthel | Marshall, W P | Belleville |
| Ferrie, K E | Hamilton | Matheson, J E | Vancouver, B C |
| Fidler, K A | Toronto | Mitchell, D R | Oshawa |
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| Grainger, Miss H | M Creemore | Piper, R S | Fort William |

| Name Potter, C W Pugsley, H E Rurie, W B Robertson, G S Robertson, G B Rodernek, J H Rosen, N Rudolph, C R Rutherford, G H Saddington, R S Sarles, R M Scott, A W Shute, E V Shute, E V Shute, E V Shute, A M Snelling, C E Snyder, W B | Home Address Southend Toronto Toronto Toronto Whithy Toronto Stoney Creek Atlanta, Ga Toronto Toronto Toronto Blenheim Amprior Frankford Calgary, Alta Vindsor Windsor Windsor Wishonville Welland Toronto | Name Taube, E L Teskey, S Thompson, I H Thompson, Miss M S Uren, J Land, F H Warren, W J Webb, A J M Webber, W H Webster, J W R Westhemmer, J R Wharton, G K Williams, A K Williams, A K Williams, A A Wilson, J A Wilson, J A Wilson, J A | Home Address Toronto Sarma Grand Valley Toronto Toronto Toronto Vandorf Weston Hamilton Kirchener Smith's Falls Boston, Mass Cayuga North Bay Beeton Owen Sound Oakville Thorold Toronto |
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| Tait, C E | Toronto | Wyke, D A | |
| Tansley, E | Toronto | Port of Spain, T | rinidad, b W I |
| | Fourth | YEAR | |
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| Boyd, J H | Toronto | Ely, C W | Beamsville |
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| Bright, W G | Wiarton | Ferguson, J G | Toronto |
| Brintnell, F B | Colborne | Fielding, E M V | Niagara Falls |
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| Hudson, L Toronto | Robson, W D |
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| Huff, R G . Peterborough Huggard, L H A R Vancouver, B C | Ross, H M Vancouver, B C |
| Hurwich, S B Toronto | Ross, I R Toronto |
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| Lucia, I E D St Davids | Stahl, H F Kitchener |
| Luckey, L E R Toronto | Stahl, O J Kitchener Strebig, D L M Toronto |
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| McDonald, D F Sutton West | Swart, H A Simcoe |
| McDonald, P W Colborne | Sweet, T A Hamilton |
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| McGonigle, R H Newmarket | Teney, H F Toronto |
| MacLachlan, Miss S R Toronto | Thaler, A F Elmwood |
| McMullen, R E Toronto | Thomas, Miss M I Toronto |
| McNeely, Miss C A Carleton Place | Usher, A M Vancouver, B C |
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| Manaceveth, B A Toronto | Vale, H E P Toronto Verner, T B St Catharines Vivian, R, P Barrie |
| Manaceveth, G Toronto | Verner, T B St Catharines |
| Mason, L W Simcoe | Vivian, R. P Barrie |
| | Waddington, H Brantford |
| Mason, P W Simcoe Matheson, J A Granum, Alta | Watson, J. L. Toronto |
| Granum, Arta | Watt, G L Brantford |
| | |

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| | APPE | ADIX | 55 |
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| Name | Home Address | Name | Home Address Hants Co , N S Beeton |
| Weber, C R | Windson | Whittier, Miss C L | |
| Welsh, W K | Oakland | Elmsdale, | |
| Whaley, D W | Toronto | Wilcox, L F | |
| Wharton, T V | Cayuga | Wilkins, W R | Toronto |
| White, A W M | Chatham | Wilson, A K | Regina, Sask |
| | Fifth Year, Six | YEARS' COURSE | |
| Abell, R. S. Adams, J. H. F. Adams, J. H. F. Adams, G. F. J. C. Baker, F. B. J. C. Baker, F. B. Ball, W. M. Beatty, J. H. Cameron, J. M. Campbell, D. W. Catherwood, W. L. Campbell, D. W. Catherwood, W. L. Cheney, Miss M. J. Chu, P. Y. Y. Cheney, Miss M. J. Coutts, G. S. Cray, J. F. Coutts, G. S. Dull, J. L. Gestar, D. J. G. Fenton, W. K. Falden, B. C. Frenton, W. K. Freiden, B. C. Frorest, J. Miss M. B. Forster, Miss M. B. Crow, H. G. Crow, H. G. Crow, H. G. Crow, H. G. F. Freiden, W. G. Freiden, M. G. Freiden, M. G. Freiden, M. G. Freiden, M. Freiden, G. Freiden, M. G. G. Freiden, M. G. G. Freiden, M. G. Freiden, M. G. G. Freiden, M. G. Freid | Owen Sound Toronto Norwhole Ottawa Men Belleville Toronto Toro | YEARS' COURSE Heaton, T G Heagge, D C G Heagge, D C G Heagge, D C D N Henderson, D N Horton, C B McGradden, J L McGrady, R P McGanden, G M McGrady, R P McLan, C B Millar, M H Monne, R E Milne, R E Mine, R E Molon, R H Molon, M H Monney, M H Molon, M H Monney, B Molon, R E Mine, R E Molon, R H Molon, M H Monney, M H Murr, W S | Toronto Brampton Toronto Handro Toronto Fullarton Toronto Fullarton Toronto Fullarton Toronto Jolingewood Burk's Falls Owen Sound Castleton Toronto Toronto Toronto Jolingewood St. Catharine Toronto Magara Falls Victoria, B C Victori |
| Graham, W L | Galt | Murchison, E B | Cambray |
| Grav. H M | Toronto | Naden, J R | Victoria, B C |
| Gray, T W A | Millbrook | Nicholson, Miss M A | Lucknow |
| Green, I | Toronto | Noble, E C | Toronto |
| Greer, H J Port | Coquitlam, B C | Paterson, J C | Sarnia |
| Hacking, L C New V | Westminster, B C | Patry, F L | Toronto |
| Hakstian, A | Brantford | Perry, Miss F E | Victoria, B C |
| Hamilton, F C | Toronto | Plewes, F D | Toronto |
| | Britannia Heights | Potter, H F | Clinton |

| 0.1 | | 112 111 | |
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| Name Raley, R. C. Rogach, C. J. Robusson, L. E. Ross, J. Rudd, M. S. K. Rumball, W. C. Russell, W. H. Schwab, J. Schwab, | Home Address Welland Vancouver, B C Aurora Toronto Foleyet St Catharmes Dhar, Central India Toronto Caledona Toronto Caledona Toronto Chinton Toronto Aurora Stratford Toronto Gore Bay | Name Strangway, W E Strangway, E Strangway, E Strangway, W E Strangway, W E Wilstrangway, B Wilstrangway, W E W E W E W E W E W E W E W E W E W E | Home Address Petrolia Dawson, Y T Holland Centre Frazerville Massey Oshawa London Toronto Toronto Toronto Priceville Toronto St. George Toronto |
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| Byrne, U P No Caldwell, W S Campbell, G E Campbell, S M Caple, H H Carmichael, Miss Challener, R E Chant, Miss E F | Hamilton Laleswood, Dimo Sundridge Calgar, Ala Carola Toronto Meria Precville Bethany Springfield Hottana Toronto Carola Kangan Hottana Toronto Kangan Hottana Toronto Kangan Hottana Toronto Lya Hottana Toronto Carola Kangan Hottana Toronto Carola Hottana Toronto Lya Lya Hottana Toronto Lya Lya Hottana Toronto Lya | Code, D B Cousland, P A C Coyne, D R Currie, G C Currie, M A Dales, C W Dalrymple, Miss L A Day, A d'Easum, L G C | Ottawa Toronto Lette Current Lattle Current Lattle Current Lattle Current Lattle Current Maskada, Man Toronto Orilla Vestmunster, B C Waterford Kintore Allandsle Neison, B G Toronto Gownstown Duntroon Minchelet Yorkion, Sask Welsekard Toronto Toronto Gownstown Minchelet Yorkion, Sask Toronto |
| Charlton, W H Chisholm, C A Chisholm, G B Clark, N S Clifford, C H Clysdale, E S | M Weston Antigonish, N S Oakville Toronto Toronto Mooretown | Gilchrist, R A New V Glenney, W R Gordon, G Gossage, C D Graham, R W | Westminster, B C Little Britain Toronto Toronto Toronto |

| Name | Home Address | M | TT Add |
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| | | Name | Home Address |
| Gray, F E | Listowel | Madoo, S C V | Toronto |
| Gray, W G | Courtright | Maloney, F. G. H. | Toronto |
| Greenberg, J H | Toronto | Maloney, F G H Maltby, E J | W Toronto |
| C | | Male No. D | |
| Griffin, B M | _ Coldwater | Meehan, Miss G B | Rochester, NY |
| Grimmett, Miss K | E | Meekison, D M | Vancouver, B C |
| | Edmonton, Alta | Michell, G E | Toronto |
| Grove, J H | Toronto | Mitchell, H C | Toronto |
| 17-11 F T | | Mitchell, II C | |
| Hall, J L | Phelpston | Montgomery, R C | Foronto |
| Hames, C F W | Aurora | Mount, H T R | Toronto |
| Hardy, A W | Oakwood | Munro, F W | Toronto |
| Hawkins, W D | Toronto | Museby W M | Owen Sound |
| Heasip, P T | | Murphy, W M Mustard, J M | |
| neasup, r i | Dundas | Mustard, J M | Uxbridge |
| Heath, T R | Orton | Myles, E R | South Woodslee |
| Henderson, W W | Toronto | Neelin, W E E | Richmond |
| Henry, A T | Toronto | Neilson, J R Nichols, T R | Stratford |
| TT C C | | 37 1 1 70 5 | |
| nicmy, G G | Markdale | IVICHOIS, I IC | Stratford |
| Henry, G. G. Herold, R. E. | Shakespeare | INODIE, J II | Toronto |
| Hershev, I H | Toronto | O'Neill, C N | Clandeboye |
| Hershey, J H Hilliar, H K | Burk's Falls | Orr. Mass I S | Toronto |
| Hoderna P A | | | |
| Hodgins, B A Hunter, Miss D L | London | Owens, Miss M | Grenville, Que |
| Hunter, Miss D L | Toronto | Page, S U | Toronto |
| Hurlburt, W E | Toronto | Papish, A | Toronto |
| Hynes, B J | St Catharines | Parry, G O | Toronto |
| Hynes, B J Irwin, W J Ianes, E C | Markham | Paton, W M | Toronto |
| II WIII, VV I | | raton, w m | Toronto |
| | Watford | Perkin, F S | Toronto |
| Jennings, H N | Hagersville | Phillips, M | Dundalk |
| Johnstone, B I | Tara | Pinchin, A H | Toronto |
| Junkin, C I | Toronto | Pratt, C H | Chesley |
| Keener, W C | Kitchener | Proud, R H | |
| Reener, W C | | | Toronto |
| Keith, H_M | Toronto | Purdy, A D T | Toronto |
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| Tang, J W | Tycvaic | Touge, w w | |
| Laing, J W Lang, H B | Toronto | Robert, J T | Chatham |
| Latimer, R H Liddy, F J Long, E C | Beaverton | Robinson, J T H | Belgrave |
| Liddy, F J | Toronto | Rogers, Miss K | Toronto |
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| McAlister, H R | Hamilton | | |
| MCAIBLEI, II IC | | Rowley, A. E. | Toronto |
| McAteer, J | Toronto | Rynard, W M W | Zephyr |
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| McDonald, T A | Delorame, Man | Sharpe, W C Shaver, E O | N Toronto |
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| D | alhousie Mills, Que | Shaw, E S | - Guelph |
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| McGill, W. L. | Toronto | Skapper, S. C. | Toronto |
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| McKenzie, R D | Hanley, Sask | Spanking H F | Aurora |
| | | Spaulding, H E Spratt, E H | |
| McKinnon, A L | Guelph | Spiau, E H | Ottawa |
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| McLellan, T G McLeod, A M | Kincardine | Stewart, D W | Toronto |
| McMurray, W J | Niagara Falls | Stokes, L S | Mount Albert |
| | | | |
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| Name Home Address Name Home Ad | |
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| | idress |
| Stone, R S Chatham Volinsky, I R To | ronto |
| | nılton |
| Suffel, S C Smith's Falls Wansbrough, R M Grand V | |
| | ronto |
| Taylor, W H Guelph Watson, G H Port C | |
| | rento |
| | |
| | Moira |
| Thompson, C E Stoney Creek Westcott, D B Colling | |
| | tham |
| Thompson, T W Port Credit White, Miss K M Moose Jaw. | Sask |
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| Tyrrell, J D Hamilton Wildfang, E J Rock | |
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| | ronto |
| Veale, W T J Bowmanville Wylie, W A Mark | cham |
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Summary

0

| First Year | 100 |
|---------------------------------|-----|
| Second Year | |
| Third Year | 105 |
| inita igar | 138 |
| Fourth Year | 101 |
| Fifth Year (Six Years' Course) | 181 |
| Intil I car (Six Years Course) | 130 |
| Fifth Year (Five Years' Course) | 212 |
| B Sc Med | |
| | 2 |
| DPH | 4 |
| Post Graduates | |
| 20st Graduites | 4 |
| Occasional | 1 |
| | |
| | |
| | 877 |
| | |

FACULTY OF APPLIED SCIENCE AND ENGINEERING

FIRST YEAR

| Jame | Home Address | Name | Home Address |
|-------------------------------------|--------------|--|-----------------|
| 3aker, G F | Toronto | Howell, J E | Welland |
| | Brantford | | |
| Ballachey, A G | | Hunter, A F | Toronto |
| Bentley, W A | Toronto | Irwin, A J | Toronto |
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| Dibbon, W L K . | Toronto | Morris, D T | Gumsby |
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| Enoury, W G | Toronto | Parkinson, C A | Toronto |
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| eery, M L K | Oshawa | Petrogannis, K Y | Toronto |
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| Grundy, E | Toronto | Russell, J H P | Toronto |
| Haggert, G J | Ingersoll | Ryan, J H | Orillia |
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| Harrington, J C | Toronto | Sanderson, E L | Toronto |
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| Heald, C G | Toronto | Scott, N | Toronto |
| Hillier, R G | Toronto | Sheak, H F M | Toronto |
| Holden, G A | Toronto | Sherk, R M | Humberstone |
| | x or onto | | |

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|--|--|---|---|
| | SECONE | YEAR | |
| Adams, W D Allan, E A Allan, E A Allan, N E A Allan, N E A Allan, N E Anderson, W Angus, W M Angus, W M Armour, C A V Auld, W F Bailes, E T Bailes Bai | Toronto Meaford Ingersoli Stratford Ingersoli Stratford Toronto Beamsville Beamsville Beamsville Idakefield Niagara Falis Sarnia Toronto Toronto Toronto Stevensville Merriton | Gaudin, E L Garnham, F T Geddes, M Gooderham, R Gordon, M B K Grant, A G Griffin, K Griffin, H D Griffin, L Hanna, A L Haultann, C F Hawken, J D Hawkins, R M Heron, B Hewitt, H L Hobden, B J | Toronto Tilisonburg St Thomas Meadowvale Dixie Toronto Toronto Toronto Royal Oak, Mich Port Carling Port Hope Wallaceburg Toronto Toronto Toronto Toronto Toronto Toronto Toronto |

Bicknell, A B Toronto Brown, A Druce, C F W Walkerville Toronto Cash, E A St Thomas Chamberlain, E E Port Credit Claridge, R D Toronto Clark, R M Toronto Clarke, W R Oshawa Chorolsky, E Regina, Sask Complin, E R Davies, E G Toronto Toronto Dick, J P Weston Dickson, A D Campbellford Douglas, A J Dow, D W Cayuga Enderby, B C Duncan, J P Brantford Fisher, R A Toronto Fox, J H Toronto Fraser, K W Pembroke

Hughes, G 1 Hyde, H Irvin, W A Irwin, H S Jeffrey, J M Jennings, G L Johnson, M H Tones, S M Kadota, K. Kellam, B Kelman, J A Kımbell, H P Knowles, R E Kribs, W H Lally, C K Leitch, K D Lem, F Y

Limoge, Ĵ

Lougheed, E H

Toronto St George Moose Jaw, Sask. Toronto Hespeler

Barrie Toronto Toronto Hamilton Toronto

Drayton

Toronto

Toronto

Toronto

Toronto

Brantford

Toronto

Humber Bay

Cobalt

| Name McColl, F H McCullough, J R McCullough, W H McGregor, H R McMartin, C A Marthew, I D Marshall, O C J Marthew, I D Martin, C A Noble, J S Norman, H L Nugent, C E Ountain, C A Putl, C B Pollock, C A Pttl, C B Pollock, C A Pttl, C B R R R R R R R R R R R R R R R R R R R | Home Address Brighton Chesley Chesley Toronto Cornwall Suttotte Barrie Brampton Toronto Toronto Toronto Cranbrook, B.C Toronto London Toronto Toronto London Toronto Toronto Toronto Toronto Toronto Saltine Barrie Toronto Galt Toronto Galt Biantford | Name Roper, J B Ruggle, H P Russell, G A Sampson, F A Samster, F A Samster, F A Saunder, F A Saunder, F A Saunder, F A Summer, N S Sutton, A F Sudden, E A Walland, A W Wige, A B Wige, A B Wige, A C Wige, R C Witherall, C W Yull, S W | Home Address Ottawa Ottawa Toronto Hamilton Toronto Gonti London Dorchester Tokyo, Japan Newmarket Pembroke Belmont Toronto Freeman Toronto To |
|--|--|--|--|
| | Тниг | YEAR | |

| Ahara, L D | |
|---|--|
| Allan J C | |
| Brown, H R Toronto Dillane, C W Kemptv Browne, L M Toronto Domm, E C Ayt Bruee, D Tavistock Dowler, E A G Burbank, J D Toronto Dunbar, W H St Mar Buchmann, K E Toronto East, L A W Stratfo | cood does onto mer Cliff onto onto onto ville yton Galt arys ford irnia rton onto |

^{*} Michaelmas Term

| Name | Home Address | Name | Home Address |
|--|------------------|-------------------------------|---------------------------|
| | Vinnipeg, Man | Patterson, T M | Kincardine |
| Graham, T C G | Inglewood | Pearen, J E | Toronto |
| CCat. D. C. | | Pearson, J W | Toronto |
| Griffith, B C | Toronto | Peart, A W M | Aldershot |
| Harrop, A C | Calgary, Alta | Peart, A W M | |
| Hill, A. J | Toronto | Pentelow, H M S | Guelph |
| Horwood, E C | Toronto | Perry, S W. | Owen Sound |
| Hubbard, E B Lo. | s Angeles, Cal | Phelps, M W | Merritton |
| Hunter, L N Inglis, G F | Brampton | Pike, J G Piper, R L | Todmorden |
| Inglie G E | Hamilton | Piner R L | Calgary, Alta. |
| Ings, J H V | ancouver, B C | Polack, D L | Toronto |
| Jackson, T W | Toronto | Potter, C E | Toronto |
| Jackson, 1 W | Dawson, Yukon | Pritchard, W R | |
| | | | Toronto |
| Jenkins, T H | Toronto | Ratz, H G | Toronto |
| Kennedy, J W Kerr, R S | Hamilton | Rowland, S A | Mount Albert |
| Kerr, R S | Toronto | Rumble, G Ryan, J W | Hillsdale |
| Kilmer, G E | Southampton | Ryan, J W | Georgetown |
| King, V B | Woodstock | Ryrie 1 | Toronto |
| Kırn, K. A | Peterboro | Shaw, F A C | Wallaceburg |
| Leadbetter, I B S | Toronto | Shaw, W U | Manitowaning |
| Leadbetter, J B S Lee, D A S | Toronto | Shurly, E C | St Catharines |
| Logge, T A T | *Oak Ridges | | |
| Lee, D A S Legge, T A T Lillie, V B | Oak Riuges | | Toronto |
| Line, V B | Toronto | | Toronto |
| Lindsay, J Little, E M | Georgetown | Smyth, A R | Toronto |
| Little, E M | Iroquois Falls | Somerville, K R | Wanstead |
| Lloyd, D S S | ault Ste Marie | Sorby, W O | Guelph |
| Lloyd, D S S Lloyd, W G McBride, R L | Hamilton | Stephens, G | Clarkson |
| McBride, R L | Iona Station | Steele, W H | Toronto |
| McBrien, R E | Peterboro | Strickland, V D'E | Hamilton |
| McColl, J A | Toronto | Sullivan, G B | Guelph |
| McKenna, W G G | London | Takaba, S Shir | nane Ken, Japan |
| McMaster, W D | Hamilton | Tanton, J F | London |
| McNab, J B | Gravenhurst | Taylor, R E | Toronto |
| MacEwen, P B | Craik, Sask | Teagle, R W | |
| MacKenzie, W J | Port Robinson | Teagle, IC W | Toronto |
| Mackenzie, W J | | Tove, A M | Toronto |
| Maclean, C | Napanee | Tribble, G B | Bolton |
| Macpherson, N E | Cornwall | Trotter, H | Calgary, Alta |
| | ault Ste Marie | Turnbull, A D | Calgary, Alta St Marys |
| Manuel, F R. | Toronto | Turner, W I | Toronto |
| Mason, H R | Toronto | Van Horne, C H | St Thomas |
| Maxwell, J O | St Marvs | Voaden, G H | St Thomas |
| Melick, D L | Dunnville | Waines, R T | Toronto |
| Miller, H | Regina, Sask. | Wait, E B | Ottawa |
| | cine Hat, Alta | Wallis, F J | Clinton |
| Milno E I | Belton | Watson, F W | |
| Milne, J M | Belton | Wells, T H | Elmira |
| Morton, A D | | | Waterloo |
| Muslim T. C | Oakville | Wellwood, F E | Richmond Hill |
| Mueller, T G Murphy, H T I | Toronto | Whatmough, F R | Stratford |
| Aturphy, H T 1 | Brookfield, N.S. | White, P S | Toronto |
| Nichol, W E | Brantford | White, W A | Toronto |
| Noonan, W H | Toronto | Whitson, D D | Toronto |
| Osburn, M P | Batteaux | Whitton, H G G | Toronto |
| Papst, H W | \mherstburg | Whitton, H G G Wright, W E | Cadogan, Alta |
| Parker, K F | Humberside | Wyatt, D | Toronto |
| | | | 10101110 |
| | | | |

FOURTH YEAR

| Name | Home Address | Name | Home Address |
|--|---|--|------------------|
| Adams, H C | Lindsay | Erwin, R B | Waterford |
| Adamson, J C | Humberside | Fawcett, W W | Bracebridge |
| Agnew, E. A | Toronto | Findlater, J R | Ay: |
| Almond, J. R. Archibald, T. A | Toronto | Firth, H E | Bramptor |
| Archibald, T. A. | Woodstock, | Forward, F A | Ottawa |
| Armstrong, G C | Warkworth | Franks, S T | Regina, Sask |
| Baker, H N | Toronto | Good, E F | Blas |
| Barbour, A D | Toronto | Gordon, R. A. | Wallaceburg |
| Barley, E B | Toronto | Gordon, R A Grabill, D L | Toront |
| Bayter T. H | Hamilton | Gray, K C | Coldwate |
| Baxter, W I F | Niagara Falls igetown, Barbadoes Ottawa | Greenwood, A H | Palmerston |
| Bayley, C. H. Buc | igetown, Barbadoes | Greey, S M | Toronto |
| Beament, T G B | Ottawa | Grenzebach, S L | Woodstock |
| Beattie, J Becker, W. A | Galt | Griesbach, R J | Collingwood |
| Becker, W A | St Thomas | Haggans, H H | Toront |
| Beecroft, G W | Toronto | Hall, J L | Bridgewater, N S |
| Beecroft, G W Bell, W T A | Hensall | Hamilton, F W | Hamilton |
| Berner, G T | Toronto | Hammond, H J | Toront |
| Boswell, F B | Toronto | Hardcastle, S | Toronte |
| Breuls, C P | Sutton West | Harman W I | Zephy |
| Brittain, C L | Toronto | Harman, W J Hendershot, R W | Kingsville |
| Buck, L G | Brantford | Henderson, G G | Toronto |
| Campbell, A. G. | Totonto | Heyland, K V | Toronto |
| Campbell, A. G. Campbell, L. D. | King | Horning, A G | Toronto |
| Campbell, W H | Toronto | | Chesle |
| Capel, A J | Collingwood | Ingersoll, L H | Woodstock |
| Caro. M | Toronto | Jackson, L. C. | Brussel |
| Carswell, W E Catto, C E | Toronto | Jackson, L C Jaques, C A Joy, C B | Woodstock |
| Catto, C E | York Mills | Iov. C. B | Toronto |
| Chadwick, A R | Toronto | Keefler R. H | Toronto |
| Chambers, H I | A Toronto | Keefler, R. H Keith, W. H Kerr, R. B | Newmarke |
| Chute, G. M. | Toronto | Kerr R B | Brantford |
| Clark, H S Clark, W H D | Toronto | Kingsmill, C G Kingston, T M S | Ottawa |
| Clark, W H D | Toronto | Kingston, T. M. S. | Toronto |
| Coleman, E M | North Bay | Laine, D | Toronto |
| Collison, L S | Leamington | Langton, J M | Toronto |
| Colman, A R | Toronto | Langin, W. D. | Toronto |
| Conners, W M | Smiths Falls | Lappin, W D Laurie, R M | Hamilton |
| Connolly, H J Cooper, W C | Toronto | Laurie, W L | Agincour |
| Cooper, W C | Clinton | Lawson, A W P | Leaside |
| Coulter, S L | Windsor | Littlejohn, E | Toronto |
| Cowan, W R | Toronto | McCulloch, H L | Gal |
| Coulter, S L Cowan, W R Davis, C R | Welland | McDowell, W O | Toronto |
| Davis, F R J | Toronto | McTavish, D N | Simco |
| Dean, G F | Toronto | McIntosh, H A | Winnipeg, Man |
| Doherty, A H | Meaford | McKillop, V A | West Lorn |
| Dow, J A | Toronto | McPhail, A L | Gal |
| Drummond, J M | E Toronto | | |
| Dymond, J M | Toronto | MacQuarrie, J D | Harrov |
| Elder, I G | Toronto | | Toronte |
| Elliott, W F Elliott, W K | Mitchell | Matson, B C | Toronte |
| Elliott, W K | St Thomas | Maus, J H | Parı |
| Emerson, T R | Toronto | Metkle, M | Midland |
| | | | |

| Name Miller, W H Mitchell, J H Moffatt, B F Moon, A M Morton, C O Mueller, E K Murrhead, S R Nettleton, C A Norman, R M Ochourne, W A | Home Address Galt Toronto Weston Toronto Hamilton Regna, Sask. Toronto Galt | Name Sneyd, C S Stevens, E C Stoll, W H Story, R A Stuart, A F Switzer, R H Take, P H Tamyama, S Taylor, J C Thomson G | Home Address Preston Toronto Nottawa Claremont Ottawa Toronto Miyozaki, Japan Toronto |
|---|---|--|---|
| Osbourne, W A | Donegal, Ireland | Thomson, G A | Toronto |
| Patience, A M | | Thomson, J M | St Catharines |
| Pedder, J F | Trout Creek | Turner, H E | Brantford |
| Porter, W J | Powasson | Waite, G G | Colborne |
| Pugsley, H J | Kitchener | Wales, C C | Toronto |
| Ratcliffe, L C | Oshawa | Walton, W R | Toronto |
| Rattle, C H | Milliken | Watson, W W | Port Hope |
| Reid, W J W | Cardale, Man. | Welsh, D T | Hamilton |
| Robertson, G H | Toronto | West, G R | Northwood |
| Robinson, F H | Toronto | Whiteside, J J | Little Britain |
| Rowat, G H | Toronto | Williams, R E | Toronto |
| Russell, N E | Dhar, Central India | Williamson, J A | |
| Scott, G D | Claremont | Willard, M V | Toronto Toronto |
| Sharpe, C T | Toronto | Wilson, F E | Toronto |
| Shibley, L K | Haileybury | Wolsey, M | Toronto |
| Shields, S | Ft William | Woodburn, C | Toronto |
| Simpson, W L | Elmvale | Yates, W S | Goldenburgh |
| Sirrs, R. R | Toronto | Yeats, F B | Stirling |
| Sitzer, I K. | Milton | Young, C M | Toronto |
| Smith, V G | Toronto | Zimmerman, A H | |
| Smith, W M | Saskatoon, Sask. | Zimmerman, A. H. | Hamilton |
| | | | |

Summary

| First Year | 12 |
|-------------|----|
| Second Year | 13 |
| Third Year | 1. |
| Fourth Year | 10 |
| | - |
| | |

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ONTARIO COLLEGE OF EDUCATION

STUDENTS REGISTERED FOR ORDINARY HIGH SCHOOL AND SPECIALISTS' CERTIFICATES

| Name Home Address | Name Home Address |
|---|---|
| Addison, Miss L M Toronto | Connal, Miss M E Peterborough |
| Affleck, W E Dutton | Courtnage, Miss E G Brantford |
| Alexander Miss E A Woodstock | Cox, S H J Watford, England |
| Analog I III Danie Cale | |
| Ansley, J W Regina, Sask | Cox, Miss V M Learnington |
| Arosemena, Miss I M Chatham | Craig, Miss M E North Gower |
| Ashcroft, C C York Mills | Crawford, Miss G M Brampton |
| Avery, C L Toronto | Cresswell, Miss J R Martintown |
| Bailey, Miss E C Toronto | Cronk, Miss E E Pickering |
| Bailey, K L G Toronto | Cryan, W C Stratford |
| Bailey, Miss M G Arner | Cummings, Miss B V K Ottawa |
| Baird, R F S Kingston | Curtin, L F West Monkton |
| Baker, Miss L V Whitby | Cuthbertson, I A Perth |
| Baker, V E Toronto | Davcy, S H Meaford |
| Ball, Miss K Harriston | Davidson, Miss M E E Prescott |
| Bannister, Miss E F M North Bay | Davis, Miss P M Mallorytown |
| Bartlett, F L Toronto | Day, D J Toronto |
| Bastedo, J B Bracebridge | |
| Beamer, L H Flint, Mich | Day, Miss K Toronto |
| | Dean, Miss C R Toronto |
| | Delahay, Miss H F Ottawa |
| | Derbyshire, Miss E W Kingston |
| | Dickson, F W R Guelph |
| | Doole, Miss A I Toronto |
| | Dowson, Miss E L Toronto |
| Boyle, Miss B E Toronto Brabazon, Miss B K Lucan | Drummond, H Toronto |
| | Dunbar, Miss A Newington |
| | Duthie, Miss L Toronto |
| Brett, Miss E V Toronto Brink, J E Woodstock | Eakins, Miss B Hatchley Eberlee, T H Dresden |
| Brock, Miss P M L London, England | |
| Brogden, R C Stratford | Edwards, Miss M Ottawa Elgie, Miss A. C Shult Ste Marie |
| Brubacher, C S Kitchener | |
| Burns, Miss M Oshawa | |
| Cameron, Miss J T St Thomas | |
| Cameron, Miss M Regina, Sask | |
| Campbell, Miss H C S Toronto | Ewan, Miss M E Toronto |
| Carslake, C H Toronto | Fallis, N R Toronto |
| Carter, Miss L A Picton | Fairar, Miss P I East Farnham, Que |
| Carthy, Miss H E Toronto | Ferguson, D H St Thomas Ferguson, Miss M B Galt |
| Chambers, F W Hamiota, Man | |
| Chambers, Miss H G St Marys | |
| Charlesworth, Miss H M Iroquois | Flieger, Miss A L Chatham, N B Fraser, Miss A B Vernon |
| Chisholm, Miss E M Toronto | Fried, Miss M H Toronto |
| Choquette, F Ottawa | Frise, H A Brighton |
| Clare, Miss M E Tweed | |
| Clarke, S H Toronto | Frise, Miss O V Brighton Fry, Miss A C Dunnville |
| Clougher, Miss E I Toronto | Furniss, Miss P H B Brechin |
| Cochrane, Miss H M. Toronto | |
| Collip, Miss R E, | |
| Canandaigua, N Y | Gavin, Miss D G Toronto Geagen, Miss E Toronto |
| Gallandaigua, N 1 | Georgen, miss E 1000100 |

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| NT | | ** | ** |
|---|--------------|--|--|
| Name I | Iome Address | Name | Home Address |
| Gibbons, Miss L M | Toronto | McCool, B S | Walkerton |
| Gilroy, A E T | Mount Forest | McDonald, Miss M S | Tana |
| Golding, Mrs H R | Toronto | MacDonell, J A | Maxville |
| Goodfriend, Miss H C | Howe Island | MacDougall, Miss A | Mitchell |
| Gourlay, Miss M | Lancaster | McEwen, Miss G M E | Maxville |
| | Galt | McGregor, Miss K | Clinton |
| Gravelle, Miss E M | Toronto | McIntosh, Miss H E | London |
| Cross Mrs M C C | Toronto | MCIROSH, MISS FI IS | |
| Gray, Mrs. M. C. C. Guinan, Miss W. M. | Toronto | McIntyre, J V McKee, Miss J G | Brantford |
| Guinan, Miss W M | Parkhill | McKee, Miss J G | Teeswater |
| Hannan, Miss A A | Toronto | MacKinnon, Miss E C | R Chesley |
| Hannan, Miss M A | Toronto | McLaren, Miss E C | St Catharines |
| Harris, Miss J H | Madoc | MacLaurin, Miss S E | Dalkeith |
| Hellycr, E. J. | Kenilworth | McLean, B M | Toronto |
| Hellycr, E J Henry, L J | Toronto | Maclean, Miss G V | Wiarton |
| Hess, Miss M L | Stratford | McLean, Miss M. | Toronto |
| Hildyard, E | Toronto | MacLellan, Miss M E | Claremont |
| Hill, D I | Staffa | MaNacha I T | |
| Homesth Man M. V | | McNeely, J T | Norwood |
| Hogarth, Miss M V Horne, G C Horne, J V | Hamilton | Macpherson, Miss J H MacQuarrie, Miss A P | K Toronto |
| Horne, G C | Toronto | MacQuarrie, Miss A P | Harrow |
| riorne, j v | Toronto | McQueen, M V | Toronto |
| Howard, Miss A E | Toronto | McRory, Miss G G | Sydenham |
| rioward, J W | Malton | Marshall, Mrs H W | |
| Hughes, Miss A | Toronto | We | stmount, Que |
| Howard, J W Hughes, Miss A Hume, A G | Toronto | Mason, Miss L M | Toronto |
| Irving, Miss A C, | | Mendizabal, A R | Tolonto |
| Cape In | averse, PEI | Messervy H A Charlot | tetown P.E.I |
| Jackson, Miss E M O | Toronto | Messervy, H A Charlot Metzler, Miss G G | Napanee |
| Jacobs, Miss E C Br | randon, Man | Middleton, Miss E M | Tapanee |
| Johnson, N F | Aurora | Millor Man D E | Toronto |
| Johnston, Miss J L | Toronto | Millar, Miss D E | Thorold |
| Jones, W. C | | Minore, Miss A J | Norwood |
| Judson, W | Toronto | Mitchell, Miss P E | Toronto |
| V. and T | Toronto | Morgan, Miss P L | Lindsay |
| Kcene, J | Brantford | Mur, Miss E J | Cornwall |
| Kelly, Miss M A | Renfiew | Mulholland, Miss E | Eglinton |
| Kendrick, Miss R V H | Toronto | Murray, J L | Prescott |
| Kennedy, G N | Toronto | Mutart, L C | Niagara Falls |
| Kennedy, V | Toronto | Nephew, Mass E G | Finch |
| Kerr, H II | Seaforth | Nodwell, W E | Toronto |
| Kilbourne, Miss M A | London | Parker, R E | Tavistock |
| Kinchsular, R | Port Dover | Partridge, B O | Barrie |
| King, C H | Toronto | Pearer, Miss I M | Toronto |
| Langford, L W | Peterborough | Pearen, Miss E M | Rockwood |
| Latchford, Miss L | Toronto | Percival, Miss R | |
| Lavell, Miss N | Toronto | Power Mars E 17 | Kemptville |
| Legris, Miss D M | Renfrew | Perry, Miss E K | Toronto |
| Leonard, A K | Clinton | Petrie, Miss P A | Clarkson |
| Lewis, A C | | Phillips, Miss L I | Toronto |
| Lummeton W M | Toronto | Plulp, D F Ed | monton, Alta |
| Livingston, W M Lockhart, Miss L K | Frankville | Pilgrim, Mrs M V M | Pembroke |
| Longon of Mr. T. M. | Kingston | Pilkey, C G | Claremont |
| Longeway, Mas T M | Stratford | Popham, Miss M E | Toronto |
| Lothian, L A | Dalkeith | Purvis, S A | Long Branch |
| Lyon, R A | Riverview | Raney, Miss G C | Pembroke |
| McAlpine, Miss H B | Toronto | Ratz, Miss R E | Toronto |
| Mc Andrew, H O | Hamilton | Read, Miss B R | Sydenham |
| MacBain, D G | Toronto | Redmond, Miss R E | |
| McCann, W.E. | Aylwm, Que | Rehder, Miss A K | Kingston Paris |
| | Milton West | Rhodes, Miss M E | |
| | | THIOGON MINDS IN IS | Brockville |
| | | | |

| Name I | Iome Address | Name | Home Address |
|----------------------|--------------|----------------------------------|----------------|
| Richardson, Miss F M | Stittsville | Telford, Mass M E | Owen Sound |
| Roberts, Miss E | Lanark | Terry, P E | Hillier |
| Robertson, Miss P A | Barrie | Thibault, Miss L B | Picton |
| Robson, Miss J A | Toronto | Throop, A B C | Bewdley |
| Roche, F R | Ottawa | Torrie, W A | Orangeville |
| | Peterborough | | Chaton |
| Ross, Miss I L | Malton | Townshend, J R Toye, Miss D E | Toronto |
| Rundle, W I | | | |
| Pours Mars M V | Dundalk | Treitz, E L | Listowel |
| Royce, Miss M V | St Thomas | Tuck, G. I | Hespeler |
| Russell, M R | London | Tucker, Miss V J | Toronto |
| Rutherford, Miss K M | Leith | VanAlstyne, Miss H C | Napanee |
| St Denis, R | Ottawa | VanLuven, Miss D M | D Hamilton |
| Scott, Miss E L | Clifford | Voaden, H A | St Thomas |
| Scott, R H | Alliston | Walker, Miss J W | London |
| Scott, W R M | Toronto | Walker, R B | Toronto |
| Sexsmith, Miss J P | Kıncardıne | Walton, Miss M B | Parry Sound |
| | lt Ste Marie | Ward, A C | Amprioi |
| | Harrowsmith | Ward, B A | Toronto |
| Sheldon, Miss M E | Brockville | Weedmark, I H | Beachburg |
| Shelton, B M | Peterborough | Weir, Miss E M | Toronto |
| Sheridan, Miss D G | Brockville | Wheadon, Miss M | Toronto |
| Smith, Miss M S | Sandford | Whidden, Miss G | Toronto |
| Snider, Miss W H | St Jacobs | White, Miss E G M | oose Jaw, Sask |
| Spencer, L A | Hamilton | Williamson, Miss W | Beaverton |
| Spinks, E [| Newmarket | Willoughby, E R F V | Vinnipeg, Man |
| Stafford, Miss L E | Waterford | Wilson, H S | Carleton Place |
| Stallwood, R J | larvis | Wilson, Miss M A | Brighton |
| Stanley, J H | Guelph | Wilson, R L | Delhi |
| Staples, Miss K M B | Orono | Windover, Miss F B I | Kingston |
| Stewart, G S | Paisley | Wingfield, A H | Hamilton |
| Stokes, M L | Sombra | Wootton, Miss M E | Maynooth |
| Tane, W F | Oshawa | Young, J P | Hilton Beach |
| Taylor, W E | Pefferlaw | Young, Miss S J | Westport |
| ,,/ | | | carport |

STUDENTS REGISTERED FOR SPECIALISTS' CERTIFICATES ONL'

| STUDENTS KL | SISHARA GRANE | TCIALISIS CERTIFICATES | ONLY |
|--------------------|---------------|------------------------|---------------|
| Bowers, H | Exeter | Harvey, Miss M I | Peterborough |
| Bullock, V E | Orono | Levi, Miss R | Toronto |
| Burnett, Miss E M | Ottawa | Lister, Miss C I | Beamsville |
| Campbell, Miss M | Peith | McCann, Miss D | London |
| Campbell, Miss S K | Orangeville | McDermid, Miss I E | Dundalk |
| Cavanagh, W R | Parkhill | Morris, F J A | Peter borough |
| Durie, Miss H F | Toronto | Partridge, I A | Toronto |
| Farmer, C S , | Barrie | Paul, Mrs H B | Lyn |
| Felker, S R | Stoney Creek | Scott, Miss R V | Beamsville |
| Forsyth, E | Toronto | Shaw, Miss O A | Trenton |
| Garrett, Miss E C | Walkerville | White, L I | Toronto |
| Graham, W A | Ottawa | Worden, E H G | Guelph |
| Hall, Miss M M S | Kingston | , | |

COURSE FOR THE ORDINARY CERTIFICATE IN HOUSEHOLD SCIENCE

| Campbell, Miss M Brockville Lee, Miss A M Martin Sidin | Ackford, Miss M. G. | St Thomas | Hornby, Mrs E S R | Toonto |
|--|---------------------|---------------|-------------------|--------------|
| | Augustine, Miss E I | Port Colborne | Kenner, Miss M L | Stratford |
| | Hepburn, Miss H A | Guelph | Martin, Miss C M | Victoria.B C |

46

Johnston, Miss E C

| Name Nickell, Miss M E Nickell, Miss M F Purvis, Miss L Railton, Miss M S E Stevens, Miss M A | Home Address Rockwood Rocl wood Markdale Smithville Guelph | Name Stewart, Miss J M Thomason, Miss C Watson, Miss F J E Weld, Miss M | Home Address Consecon Toronto Toronto Blytheswood |
|--|---|---|---|
| STUDENTS REGIS | TERED FOR THE | BACHELOR OF PEDAGOO | V Degree |
| Anderson, F H Ansley, J W Armstrong, T W Bennett, J M Bibby, Miss M V | Roland, Man Toronto Toronto Toronto Toronto | Jordan, A A Jordan, J C Kerfoot, H W McLellan, J C McLellan, R F | Toronto Sarma Ottawa Toronto Toronto |

Brennand, C G
Douglas, A C
Firth, J W
Fitch, J H
Fraser, S L
Grainger, H A
Gray, J E
Halbert, E J Misener, G I Mustard, J T O'Reilly, J B Petrie, P A Toronto Edmonton.Alta Hawkesbury Toronto Aurora Toronto Truro, N S Toronto Montreal, Oue Roley, R S Toronto Toronto Smith, J L Smith, W C Tolonto Toronto Toronto Spragge, G W Toronto Port Hope Halbert, H A Holmes, S D Toronto Steinberg, A G Stothers, J C Cornwall Toronto Bracebridge

Toronto
SUMMARY
Students Pagestaged for Work

| orangement registered for tright | |
|----------------------------------|-----|
| School and Specialists' Certi- | |
| ficates | 275 |
| Students Registered for Special- | |
| ists' Certificates | 25 |
| Students Registered for Certifi- | |
| cates in Household Science | 17 |
| Students Registered for Bachelor | |
| of Paedagogy Degree | 31 |
| 0.07 | |

Total 348

FACULTY OF FORESTRY

FIRST YEAR

| A Ind A Drib | | |
|--------------|--|--|
| | ie Address Ierrickville Almonte Toronto | |

SECOND YEAR

| Goodfellow, A W | Huntingdon, Que | Phipps, G W | Thornbury |
|-----------------|-----------------|--------------|---------------|
| Kiug, H H | Chesley | Ryan, T H | Victoria, B C |
| Macdonald, S C | Toronto | Smith, R E | Toronto |
| Mackey, T E | Thornbury | Swartman, G | Waubaushene |
| Morgan, E C | Toronto | Ussher, R. D | Toronto |

THIRD YEAR

| Archer, C F Batt, C A Bedeli, G H Burrows, T A, Jr Fenwick, A R Gicenwood, W B | Toronto Bowmanville Winnipeg, Man Toronto Toronto | Parsons, H H Rowe, C A Simpson, E R Thomson, G J | f Spain, Trinidad Toronto Toronto Thornhill Mansfield |
|--|---|---|---|
| Higgins, W A Kingston, G A | Toronto Ottawa | Willson, W E | Aurora |

FOURTH YEAR

| Ardenne, M Brown, J D Burk, A H Fensom, K G Grant, G C | Toronto Brockville Thessalon Montreal, Que Aberdeen, Scotland | McKenzie, A R Stewart, J V Walton, J R | New Hamburg B Windsoi, NS Brandon, Man Toronto Toronto |
|--|---|--|--|
| Hosie, R C Kensit, N M | London Toronto | Whitelaw, W A | Edmonton, Alta |

SUMMARY

| First Year | |
|-------------|---|
| Second Year | 1 |
| Third Year | 1 |
| Fourth Year | 1 |
| | |
| | 4 |

FACULTY OF MUSIC

FIRST YEAR

| Bergin, Miss G L, | ome Address adence, R I London Toronto Elora Toronto Toronto Newcastle Toronto London Toronto | Name McIlugh, M J Murshall, Muss M II Merchant, Muss M II Merchant, Muss M II Merchant, Muss M II Merchant, Muss M II Orr, Muss M M Qunlan, Muss F M Qunlan, Muss F M Qunlan, Muss A R Solway, J Solway, M Thompson W M Thompson W M Wellace, A H Werr, Muss N P Willis, Muss N E Worden, Muss H C | Home Addres Toront Guelpl Whitby Toront Lethbrodge, Alta Calgary, Alta Westor Toront Toront Toront Toront Hamiltor Edmonton, Alta Toront Toront Toront Toront Vancouver, B C Cranbrook, B C |
|-------------------|---|--|---|
| | | | |

SECOND YEAR

| Ahrens, Miss C B | Stratford | Hunt, Miss D B | Toronto |
|-----------------------|-----------|-------------------|--------------|
| Angus, R A | Toronto | Irwin, Miss K P | Toronto |
| Becker, Miss H L | Toronto | Lee, Miss E M | Toronto |
| Chisholm, Miss R E | Oakville | Densem, C H | Toronto |
| Dickinson, Miss R W J | Port Hope | Record, H J | Regina, Sask |
| Egan, Miss M E | Toronto | Reed, E | Toronto |
| Hawke, H W | Toronto | Stephens, F W | Toronto |
| Herbert, O L | London | Tufts, Miss E L G | Regina, Sask |
| Hermon, E W | Toronto | White, E F | London |

THIRD YEAR

| Bird, Miss A C Campbell, Mrs Marv C Peaker, C Saskat | Toronto Toronto oon, Sask | Price, F P Webbe, W Y | Toronto Summit, N J |
|--|---------------------------------|--------------------------|------------------------|
|--|---------------------------------|--------------------------|------------------------|

SUMMARY

| First Year | 33 |
|-------------|----|
| Second Year | 18 |
| Third Year | 5 |
| Total | 56 |

SCHOOL OF GRADUATE STUDIES

CANDIDATES FOR PH D

| Name Adamstone, F B | Home Address Toronto | Name Lacey, A | Home Address Toronto |
|------------------------------|-------------------------|-------------------|--------------------------|
| Amslie, D S | St Mary's | LeDrew, H H | Guelph |
| Baine, F J | Toronto | Lehrman, S | Toronto |
| Barnes, C | Leeds, England | Leim, A H | Toronto |
| Bart, P J | Toronto | Levi, Miss M | Toronto |
| Bates, H C | Easton, Pa | Lorriman, F R | Thorold |
| Berkeley, G H | St Catharines | McConkey, O | Guelph |
| Beiry, A E | St Mary's | MacDonald, Miss E | |
| Borsook, H | Toronto | McKellar, H S | Toronto |
| Brady, A | Toronto | Mackenzie, J | Toronto |
| Burt-Gerrans, J T | Toronto | MacKinnon, Miss F | I St Catharines |
| Cheng, H Y | Washington, D C | McLay, A B | Toronto |
| Cohen, J W | Toronto | McQuarrie, W C I | Harrow |
| Connor, A J | Toronto | Matthews, Miss F. | A Toronto |
| Dobson, W P | Toronto | Moloney, P J | Toronto |
| Dorland, A G | London | Moriell, J. A. | Toronto |
| Eadie, G S | Toronto | Mounce, Miss I | Vancouver, B C |
| Eastcott, Miss E V | | Nolan, Miss L E | Toronto |
| Findlay, D M | Toronto | O'Connor, Miss M | C Toronto |
| Foerster, R E | Vancouver, B C | Rebbeck, J W | Vancouver, B C |
| Fraser, Miss C J | Toronto | Rickaby, H C | Orono |
| Fritz, Miss C W | Toronto | Riordan, F. J | Toronto |
| Fritz, Mas M A | Toronto | Robinson, D A F | Toronto |
| Funnell, W S | Toronto | Scott, D A | Toronto |
| Gee, A. H | Toronto | Sharp, Miss D | Beamsville |
| Gledhill, T L | Kincardine | Sheppard, N E | Toronto |
| Gordon, A R | Toronto | Sine, F L | Sydenham |
| Griffen, A K | Toronto | Smith, H G | Toronto |
| Harkness, W J K | Vineland Station | Stock, L J | Mimico Beach |
| Hoover, G I Ireton, H J C | Weston | Taylor, Miss E M | Todmorden |
| Ireton, ri J C | Perth | Walker, A R | Toronto |
| Kelly, S. F. | Toronto | Warren, P S | Edmonton, Alta |
| Kemp, H R | Toronto | Weinberg, Miss M | Winnipeg, Man Toronto |
| Kerr, W B | Seaforth | Westman, A E R | Toronto |

CANDYDATED FOR M A

| CANDIDATES FOR M A | | | |
|--------------------|-----------------|-------------------|---------------|
| Ansley, J W | Wingham | Black, D | Peking, China |
| Archibald, R G | Hazelridge, Man | Bowie, D J | Toronto |
| Atkinson, W D T | Óttawa | Brearley, E W | Mt Elgin |
| Avearst, M I | Toronto | Brodie, Mass G A | Toronto |
| Ball, W V | Kingston | Brown, Miss H M | Toronto |
| Ballard, Miss A B | Niagara Falls | Burwash, Miss F M | Arnprior |
| Balmer, H F | Toronto | Carruthers, R G | Blackstock |
| Beaman, Miss M B | Monrovia, Cal | Chamberlain, G C | Ottawa |
| Bell, H J | Peterborough | Chant, S N F | Toronto |
| Bell, R L | Ingersoll | Cohen, Miss C P | Toronto |
| Bennett, I M | Toronto | Cohen, Miss C | Toronto |
| Bird, Miss R G | Barne | Cole, Miss A C | Toronto |

| | out Date |
|--|--|
| Name Collip, Miss R E Canardagua, NY Darker, G D Dauphmee, J A, Dauphmee, J A, New Westminster, B C Deas, Miss J Dougall, Miss M F Dougall, Miss M M Dougarth, Miss M Welland Hunter, Miss M Welland Hunter, Miss M M Dougarth, Miss M M Dougarth, Miss M Home, Miss M M Home, Mi | Name Lobb, Miss A M Lobb, Miss B E Lobb, Miss B E Lobb, Miss B B Lobb, Miss B Lobb, Miss B Lobb, Miss B McClarian, Miss B McClarian, Miss B McCallen, Miss B McLeod, C MacNesy, J Miss B MacLehan, Miss M McLeod, C Miss B MacLehan, Miss B McLeod, C Miss B Miss |
| Keeling, W. L. Toronto | Storey, W J Toronto |
| Kelly Marc 4 M Cookstown | Sweitzer, C W Kitchener |
| Kendrick, Miss R V H Toronto | Taylor, A C Toronto |
| Kilbourne, Miss M A London | |
| Lane, J. A. Ouebec, One | Thomas, E H Toronto |
| Lassaime, H Windsor | Thomas, H F S Toronto |
| Lightbourn, G O London Little, W J Barrie | Thomas, Miss I M Toronto |
| Little, W J Barrie Lister, Miss C I Beamsville | Trethewey, W H Woodville |
| Beamsvine | Tuck, G I Hespeler |
| | |

| Name Tuffy, Miss C Valentine, Miss C Walker, R B Walsh, Miss D H Ward, F G Watts, Miss A W Wells, D C Welty, E J | Hay P O Merritt, B C Toronto | Name Whalen, Miss M Wigham, Miss H Wilkinson, F H Wilkinson, J E Wilson, H A Winnett, F V Wood, Miss C Wyatt, K S | Home Address Toronto Toronto Toronto Toronto Barrie Oil Springs Toronto Wilmot, N S |
|--|--|---|---|
| | GRADUATE | STUDENTS | |
| Barry, Miss M D Doyle, Miss B E Brockner, B R Brown, G G Brubacher, C S Buchanan, Miss R Chantler, Miss G Cho, H Y Clarke, H S Couch, J H Crossman, B Cowie, Miss H Crossman, B Currie, J E Davidson, Miss V Perguson, D H Field, Miss A W Hill, K W HILL W H | W Toronto Toronto Toronto Toronto Toronto Strathroy Ottawa Kitchener Smith's Falls Wingham | Hope, Miss H J Howard, Miss A i Kells, Miss E M Kennedy, Miss M Ketchun, J D Leonard, A K Lowe, Miss E M Magure, Miss L Mustard, T Pugsley, Miss H i Rifey, C G Robertson, Miss P Scott, Miss W Scott, Miss W Scott, Miss M Scatter, Miss M Squarr, M | I Toronto I Toronto Cinton Halifax, NS E Toronto Brucefield R Toronto Milford Bay A Barrie Toronto Peterborough H Toronto Toronto Toronto Toronto |
| Holmes, A | Toronto | Wright, Miss A M | I West Hill |
| Boyd, Miss G L Ellis, A W M | CANDIDATES Toronto London, England | Wilson, M J | Toronto |
| | CANDIDATES | ron CH M | |
| Dafoe, W A Gillespie, W F | Madoc Edmonton, Alta | Huether, A L Minish, N J | Guelph Gilbert Plains, Man |
| | CANDIDATES | FOR M A Sc | |
| Dilworth, H M Farncomb, H F French, H E Kay, G F Leslie, R C | Toronto Trenton Midland Toronto Toronto | Lewis, C E McBride, E W Shaffer, B Veals, R C | Toronto Toronto Fort William Toronto |
| | CANDIDATES : | FOR M ARCH | |
| McIntyre, H A | Toronto | Noxon, K F | London, England |
| | CANDIDATE | S FOR CE | |
| Allan, E B Maranı, V G | Hamilton Chicago, III | Shupe, S Topping, V | Kitchener Toronto |
| | CANDIDATE Duncan, J M | FOR ME Toronto | |

| CANDIDATES FOR D PAED | | | | | |
|---|---------------------|--------------------------------|-----------------|--|--|
| Name | Home Address | Name | Home Address | | |
| | | Ketchum, P A C | Toronto | | |
| Allen, P C | Toronto | King, H B | Vancouver, B C | | |
| Althouse, J G | Toronto | Kinnee, H C | Toronto | | |
| †Ansley, J W Baker, J W | Regina, Sask | Kinnee, ii C | Toronto | | |
| Baker, J W | Toronto | Langford, F W | Toronto | | |
| Ballard, M R | Moose Jaw, Sask | Leitch, A.G. | | | |
| Bell, R L | Ingersoll | Lewis, A C | Toronto | | |
| Bennett, W G | Toronto | Long, J A | Toronto | | |
| Bowers, H | Exeter | McCullough, J L | Toronto | | |
| Brennand, C G | Toronto | MacDonald, D D | Toronto | | |
| Bunt, W H | Toronto | MacInnes, E D | Toronto | | |
| Cameron, J. A. | Toronto | MacKenzie, D H | Toronto | | |
| Campbell, A L | Weston | McMillan, E R N | New Westminster | | |
| Carlisle, J O | Toronto | McMillan, G | Hamilton | | |
| Carlisle, J. O. Carlton, W. H. | Toronto | McNaughton, J L | Walkerville | | |
| Cavell, H E | Toronto | Magee, H E | Toronto | | |
| Challen, N E | Galt | Masterton, R B | Kamloops, B.C. | | |
| Coombs, F E | Toronto | Maxner, M O | Lunenburg, N S | | |
| Daniels, P | Hamilton | Morgan, Miss G | North Bay | | |
| Davidson, J. H. | Hamilton | Morrison, S A | Markdale | | |
| Diltz, B C | Lindsay | Mustard, C A | , Tolonto | | |
| Dippell, L W | Kincardine | †Mustard, T | Toronto | | |
| Downey, R F | Peterborough | Niece, H P | Vankleek Hill | | |
| Do\sec, J E R Ferguson, J G | Regina, Sask | Payne, Miss L | Toronto | | |
| Ferguson, J G | Bassano, Alta | Petrie, P A | Toronto | | |
| Fydell, W A | Toronto | Phillips, C E | Toronto | | |
| Goldring, C C | Toronto | Pound, G. S. | Abernethy, Sask | | |
| Galpin, H B | London | Powell, F C | Toronto | | |
| Grainger, H A | Toronto | Prueter, H J | Toronto | | |
| Green, W H H | Sudbury | Ray, V A | Hamilton | | |
| Halbert, E I | Toronto | Ronan, Miss F T | Toronto | | |
| Halnan, L R Hardy, J H | Stratford | Rowe, C L | Oshawa | | |
| Hardy, J H | Perth | Scott, A R | Bowmanville | | |
| Henry, S E | Haileybury | Seaton, H T | Hamilton | | |
| Holmes, S D | Picton | Simpson, J G | Toronto | | |
| Horwood, R B | Toronto | Stanbury, Miss F | Toronto | | |
| Inmag E I | Done Author | Stewart, R | Toronto | | |
| Jamieson, E | Toronto | Stothers I C | Toronto | | |
| Jamieson, E Jamieson, W. H. Jamieson, Miss J. | Niagara Falls South | Stothers, J C Trench, W W A | Richmond Hill | | |
| lamieson, Miss I | L Toronto | Walsh, J C | Ottawa | | |
| Johnston, Miss E | C Toronto | Wetmore, H. H | Pictou, N S | | |
| Jordan, A A | Toronto | Willis, C B | Edmonton, Alta | | |
| Kelly, W F | Toronto | Worden, O O | Toronto | | |
| Kerfoot, H W | Ottawa | Wright, R | Hanover | | |
| | | | 21416761 | | |
| Sunwary | | | | | |
| | Candidates for Ph I | | | | |
| Candidates for M.A. 150 | | | | | |

| Candidates for Ph D | 6 |
|------------------------|-------------|
| Candidates for M A | 150 |
| Graduate students | 40 |
| Candidates for M D | |
| Candidates for Ch M | 4 |
| Candidates for M A Sc | 9 |
| Candidates for M Arch | 9 2 4 |
| Candidates for C E | - 4 |
| Candidates for M E | i |
| Candidates for D Paed | 86 |
| Duplicate registration | - |
| Total | 387 |
| tration | ••• |
| | |

†Duplicate Registration

5.3 APPENDIX

DEPARTMENT OF SOCIAL SERVICE

FULL TIME STUDENTS

FIRST VEAR

| Name Brown, Miss L K Victors, & Victors, & Campbell-Johnston, D G. Wictors, E Charleson, Miss A L Coulter of Charleson, Miss A L Lougheed, Alta Pizacon, Mrs G Winnipeg, Man Farmet, Miss E H Toronto Findler, Miss P M Toronto Findler, Miss P M Toronto Follett, Miss H Greenwood, Miss H Greenwood, Miss H Greenwood, Miss H Greenwood, Miss A M Toronto Hughes, Miss K A Toronto Hughes, Miss M H H H H H H H H H H H H H H H H H H | Name Home Address King, Miss V F Toronto Mrs V T Toronto Learning, Miss M L M Islangton Mallon, Miss E M Islangton Miss D Toronto Page, Miss I Toronto Page, Miss I Toronto Page, Miss M Singlaton Miss M Singlaton Miss M Maple Creek Sask Sinclar, Miss R M Singlaton Miss R M Singlaton Miss R M Windsor Singlaton, Miss R M Windsor Singlaton, Miss R M Windsor Ottawa Williams, M E Toronto Miss K Ottawa Williams, M E Toronto |
|---|--|
| | |

SECOND YLAR

| Laine, Miss P M Laughton, Miss L V Lawson, Miss M M Ord, Miss G M | Toronto Toronto Toronto Islington | Turton, Miss N E Waldo, Miss E Whitehead, Miss H M | Toronto Toronto Walkerton |
|---|--|--|---------------------------------|
| | | | |

| Lawson, Miss M M Ord, Miss G M | Toronto Islington | Whitehead, Miss H M Walkerton |
|--|--|--|
| | PART TIME | STUDENTS |
| Baldwin, Miss C M Barkley, Miss M O Barton, Miss S C Beaumont, B O Beecher, Mrs O Bell, Miss M H Bolton, Miss M A Bolton, Miss M A Breadner, Miss H F Bridge, Miss E G Brown, Miss M L Browning, Mrs A E St J Burbidge, Miss V Burgar, Miss G M | Auburn Toronto Toronto Toronto Toronto Toronto John, N B Toronto Chesterville Becton Toronto | Butcher, Mass A K Port Sydney pers, Miss L M Calkin, Miss M E Cardinal Calkin, Miss M E Cardinal Calkin, Miss M E Cardinal Cardin |
| * Michaelman Torm | | |

^{*} Michaelmas Term

| NT | Home Address | Name | Home Address |
|---|-------------------------|---|-------------------------|
| Name | Bradford | Johnston, Miss M | Toronto |
| Darling, Miss M | Parry Sound | Jones, Miss I C | Toronto |
| Darlington, Miss M | Lloydtown | Kain, Miss E L | Hanover |
| Deacon, Miss R | Toronto | Kane Miss N | Toronto |
| Delantz, Miss C | | Keancy, Miss H G | Bradford |
| Derry, Miss L I | Kingston Port Arthur | Kemp, Miss L E | Toronto |
| Doyle, Miss C | York Mills | Kennedy, Miss B H | Wingham |
| Duffield, Miss M H | Alton, NY | Keer Miss H L | Toronto |
| Eldridge, Miss E L | Toronto | Kightley, Miss G R b | enetanguishene |
| Ellard, Miss M | Kelso | King, Miss E M | Stratiord |
| Elliott, Miss K I | Agincourt | Knowles, Miss E J | Toronto |
| Elhott, Miss V M | Mitchell | Labey, Miss H D | Trenton |
| Fawcett, Miss G E Fell, Miss E B | Toronto | Lang, Miss A L Ind | ian Head, Sask |
| Fenn, Miss M | Whiteside | Lang, Miss A L Ind Lanigan, Miss R M 1 | Melbourne, Que |
| Ferguson, Miss G F | Toronto | Larkin, Miss M | Toronto |
| Finnie, Miss J E | Bailieboro | Lashengie, Miss E E | New Hamburg |
| Fleming, Miss J H | | Lavine, Miss T D | Toronto |
| Fletcher, Miss D | Toronto | Layton, Miss K M | Shelburne |
| Flord Muse M | Chesley | Lea. Miss M I | Bradford |
| Floyd, Miss M Follis, Miss H E Ford, Miss R M | Guelph | Lewis, Miss K E | Toronto |
| Ford Miss R M | Hamilton | Lightbourn, Miss M | D Terento |
| Forde, Miss H | Toronto | Littlewood, Mrs P | Halifax, NS |
| ·Fraser, Miss A B | Hamilton | Locke, Miss B J K | Campbellford |
| Fraser, Miss E B | Englehart | Lowery, Miss T | Ottawa |
| Fraser, Miss M E I | | Lucas, Miss E | Toronto |
| Gaudet, Miss L | Toronto | Luxton, G N | Mount Forest |
| Gladstone, Miss A (| Midland | Lyall, Miss L M | Shanty Bay |
| Glithero P | Torento | Lynch, Miss E M | Toronto |
| Goodwin, Miss C F Graham, Miss D S | Toronto | Macara, Miss M G | Ottawa |
| Graham, Miss D 5 | Sutton West | McCabe, Miss E | Toronto |
| Graham, Miss E R | Almonte | McCallum, Miss M | Toronto |
| Graham, Miss L. | Toronto | McCarthy, Miss C | Toronto |
| Granville, Miss C | Toronto | McCleary, Miss D A | M Sheridan |
| Greenwood, Miss M | S Ridgeville | McClinchey, Miss M | Seaforth |
| Grover, Miss H L | Norwood | MacDonald, Miss H | Toronto |
| Flames, Miss E L | Toranto | MacDonald, Miss J MacDonald, Miss M | M Toronto |
| Halkett, Miss I | Toronto | MacDonald, Miss M | Pictou, N S |
| Halliday, Miss M 1 | I Toronto | McDonald, Miss R. | Toronto |
| Hallman, Miss S B | South Cayuga | McDonald, Miss R 1 | 4 Owen Sound |
| Hamilton, Miss E Handley, Miss V | M Colgan | McKague, Miss E | Wingham |
| Handley, Miss V | Winnipeg, Man | McKee, Miss E | Hamilton |
| Harris, Miss L M | Welland | McKinnon, Miss J L | |
| Hart, Miss E | Uxbridge | McKinnon, Miss K | Copper Cliff |
| Hay, Miss M J | Alliston | McLaren, Miss H L McLennan, Miss C S | Lumsden, Sask |
| Hearn, Miss H A | Toronto | McLeman, Miss C S | |
| Heath, Miss O J | Orton | McLeod, Miss A M | Sudbury |
| Hewitt, Miss E M | Athens | McNaughton, Miss A Madden, Miss M E | E North Bay |
| Hodgson, Miss R Hosking, Miss S G | M Landsay | Mallaby, Miss R | Toronto |
| Florall Mass 5 G | Rockwood | Manson, Miss A | Toronto |
| Howell, Miss J G Hughes Miss M A | Fonthill | | |
| Irwin, Miss M L | | Matthews, Miss T Mohr, Miss N E | M Meianethon Toronto |
| Jaffray, Miss M F | l'oconto Galt | | |
| Johnston, Miss B F | | Morrison, Miss R M | |
| Johnson, Miss D F | Primico | mornson, miss K. h | a mannax, N S |

| Name Home Address | Name Home Address |
|--|----------------------------------|
| | Name Home Address |
| | Sewell, Miss S J Paris |
| Mutch, Miss M. D Toronto | Shaw, Miss M Toronto |
| Mylins, Miss I Toronto | Shuttleworth, Miss M V Brooklin |
| Munro, Miss J E Halifax, N S | Siteman, Miss E R |
| Murray, Miss L D Moose Jaw, Sask. | Lower Ship Harbour, N S |
| Nicholson, F J Toronto | Skitch, W H Toronto |
| Nicoll, Miss J E Pushnch | |
| Nixon, Miss E Malton | Smith, Miss D E Mimico Beach |
| Norwich, J R Toronto | Speers, Miss O I Caledon |
| O'Beirn, Miss E K Uxbridge | Spencer, Miss M M Toronto |
| O'Brien, Miss M M Toronto | |
| O'Gorman, Miss I Eganville | Stephen, Miss E Winnipeg, Man |
| O'Hara, Miss M I Toronto | Stevenson, Miss V I Guelph |
| | |
| Ord, G L Islangton | |
| O'Reilly, Miss A K Bolton | Stewart, Miss K M 10ronto |
| Ormsby, Miss M Toronto | Stewart, Miss M E Conniston |
| Page, Miss E V Toronto | |
| Patterson, Miss A M Priceville | Stuart, Miss H M Toronto |
| Patton, Miss M A Sarma | |
| Peacock, Miss B I Toronto | |
| Percy, Miss D M Ottawa | |
| Perry, Miss D E Brampton | Thompson, Miss A Lombardy |
| Peters, Miss L M Dalhousie Lake | Thompson, Miss L M V |
| Pingle, Miss I I Unionville | West Flamboro |
| Pinkerton, Miss J M Pinkerton | Treadway, Miss L Toronto |
| Radmore, Mrs L I Toronto | Turner, Miss M T Peterboro' |
| Raikes, Miss C C Barrie | Underhill, Miss A M Fort William |
| Ramboth, Miss L Ottawa | Valens, Miss E M Edmonton, Alta |
| Raymer, Miss N B Mount Joy | Vohman, Miss H H Toronto |
| Robbins, Miss E M Orillia | Walker, Miss L A Bobcaygeon |
| Roberts, Miss A Toronto | Walker, Miss W Regina, Sask |
| Robinson, Miss K Toronto | Wandle, Miss L A Toronto |
| Rombough, Miss M C Finch | Wells, Mass M M Bughton |
| Rooney, Miss A Toronto | Wheler, Miss E R Washington, Ga |
| Rowan, Miss E A Toronto | Wilson, Miss E M Ottawa |
| St John, Miss M E Toronto | Wood, Miss C L Bailieboro |
| St John, Miss M E Toronto Scollon, Miss R Toronto | Woodard, Miss J M Toronto |
| Scott, Miss B C Alliston | Young, Miss J D Kingston |
| Scott, Miss M I Milton | Young, Miss M R Milltown, N B |
| Scott, Miss M M J Forest | Zielger, Miss B R Kingston |
| • | |
| | |

SUMMARY

| Full Time Students First Year | 31 |
|-----------------------------------|----------|
| Second Year Part Time Students | 7 232 |
| Total | 270 |

Baird, Miss A B Winnipeg, Man

DEPARTMENT OF PUBLIC HEALTH NURSING

FIRE TIME SPIDENTS

Home Address

Name

McClintock, Miss E J

Home Address

Lisle

| Chambers, Miss N R | Stirling | McCort, Miss M | Toronto |
|-----------------------|--------------------|---------------------|------------------|
| Crane, Miss F N | Toronto | McEnaney, Miss M | E Toronto |
| Dalzell, Mrs I J | Scotland | Macintyre, Miss A E | |
| De Porcheron, Mrs A S | | McPhail, Miss A 1 | Woodstock, N B |
| Dillon, Miss L | Toronto | Rathbun, Miss N I, | |
| Durie, Miss G E | Toronto | | ewport Sta , N S |
| *Gibson, Miss A L | Kingston | Ratz, Miss E M | Toronto |
| Grahanie, Miss J B | Toronto | Rice, Miss M E | Welland |
| Grindon, Mrs A F V | ancouver, B C | Seely, Miss E | Toronto |
| James, Miss D M | Ottawa | Sheridan, Miss C | Brockville |
| Kerr, Miss O V | Port Elmsely | Tisseau, Miss M V J | |
| Kilborn, Miss C A C | hengtu, China | Vickova, Miss M | Czechoslovakia |
| Lawder, Miss L | Weston | Willis, Miss M I | Stellarton, N S |
| Lawder, Miss C | Weston | White, White Mr. J | Stematton, A S |
| | | | |
| | PART TIME | STITLES TO | |
| | TAKE TAME | TODAMI' | |
| Allison, Miss J T | Agincourt | Millman, Miss M B | Totonto |
| Barnes, Miss F H | Forento | Nicol, Miss I M | Totonto |
| Blackmore, Miss G S | Turonto | Price, Miss E R | Toronto |
| Black stock, Miss B | Totonto | Price, Miss Z, I | Toronto |
| Butchart, Miss M E. | Tojonto | Quigley, Miss M R | Toronto |
| Connor, Miss A M | 1 oronto | Reid, Miss D | London |
| Cowan, Miss J M | Larkter, Sosk | Rogers, Miss A A | Toronto |
| Davies, Miss M E | Poronto | Rogers, Miss E T | Toronto |
| Dove, Miss A. G | Totonto | Ross, Miss B A | Toronto |
| Forbes, Miss G | Toronto | Ross, Miss G | Toronto |
| Gamble, Mass L A | Ottav a | Scholey, Miss E | Totonto |
| Gardner, Miss C | Totonto | Sharpe, Miss E H | Toronto |
| Hefferman, Miss H | l'oi onto | Sketch, Miss R B | Toronto |
| Hickey, Miss E | Toronto | Stovel, Miss M | Toronto |
| Hutchison, Miss D S | | | Toronto |
| McKinnon, Miss E D | Toronto Toronto | Weldon, Miss O E | Oakwood |
| | | Wheeler, Miss M A | Toronto |
| Meader, Miss K | Toronto | Woods, Miss J M | Toronto |
| 437 1 1 20 | | | |

SUMMARY

| Full Time Students Part Time Students | 27 3- |
|--|----------|
| | - |
| Fotal . | 6 |

Hutchison, Miss D S McKinnon, Miss E D Meader, Miss K *Michaelmas Term

GRAND SUMMARY

| Faculty of Arts Faculty of Medicine Faculty of Applied Science and Engineering Ontain College of Education Faculty of Forestry Faculty of Music School of Graduate Studies Department of Social Service | 566 348 43 56 367 |
|---|-------------------------------|
| Department of Social Service | 270 |
| Department of Public Health | |
| Nursing | 61 |
| Duplicate Registrations | 60 |
| Total | 4,859 |



HISTORICAL SKETCH

The movement which ended in the establishment of the University of Tomoto as the entire of the educational system of the Province of Ontario originated with General Simose, the first Governor of Upper Canada, who repeatedly expressed his conviction, both before his departure from England and also during his term of office (1702-1708), that the best interests alike of the Government and of the inabitations demanded the establishment of a University in Upper Canada It was not, however, during his administration that the project assumed a definite form

In 1797 the Legislative Council and House of Assembly in a joint address to King George III asked "that his Majesty would be graciously pleased to direct his Government in the Province to appropriate a certain portion of the waste lands of the Crown as a fund for the establishment and support of a respectable Grammar School for each district thereof, and also a College or University for the instruction of youth in the different branches of liberal knowledge" To this address a favourable answer was transmitted, and the acting Lieutenant-Governor, the Hon Peter Russell, was directed to determine the manner and character of the appropriation In accordance with this request the Executive Council of Under Canada renorted on the 1st December, 1798, that an appropriation of 500,000 acres would be sufficient for the support and maintenance of four Grammar Schools and a University For the foundation of the latter nothing was done until 1827, when a Royal Charter was granted for the establishment at or near York, as Toronto was then called, of a College, "with the style and privileges of a University", to be called "King's College", having for its endowment that portion of the grant of "waste lands" originally provided for the University in the report above referred to These lands were in 1828 exchanged for 225,944 acres of Crown Reserves

Owing not only to the character of the endowment, which required time for its realization in the form yielding an annual revenue, but also own to the terms of the charter, which required all the members of the Faculty to be adherents of one particular religious denomination, the opening of the College was delayed for fourteen years. In consequence of public representations on the sectaran character of the College, all religious test even abolasted by an aniended charter which passed the two Houses of the Provincal Legislature and received the Royal Assent in 1837. In 1842 the affairs of the University had assumed such a condition as to render its organization possible, and Faculties of Arts, Mechane, Law and Drivinty were established. In that year the erection of the College Building with the plant on the castern portion of the set of the present Legislature Buildings. In 1843 the first matriculation of students took place, and maugural advicesses and lectures were delivered on the 8th and up of June of that year the

60

The agitation which resulted in the amended charter of 1837 had continued after the opening of the College in 1822, owing to the efforts made to defeat the purpose of the amendment, and in 1849 an Act of the Legislature effected important modifications in the constitution of King's College whereby all instruction in Divinity was discontinued, and a larger measure of public control of the affairs of the University instituted, through the formation of a Senate, of which a number of the members were appointed by the Crown The name was now changed from that of "The University of King's College" to that of "The University of Toronto"

Three years afterwards the University underwent a further transformation, by which the Art of 1853 abolashed the Faculties of Medicine and Law, and divided its functions between the two newly organized corporations of the "University of Toronto" and "University College." To the Senate were assigned the duties of framing the curriculum, holding examinations and admitting to degrees in Arts, Law and Medicine, while to the Presidents and Professors of University College, as a distinct and independent corporation with special powers, were assigned the teaching in Arts and the entire discipline and control of students. The models followed in the reorganization of the University, it claimed, were the University of London and University College, London, both of which had then been only recently established. For thirty-four years the University of Toronto and University College performed the functions respectively assigned to them by this Act.

During the early years of the University it experienced repeated changes in its local habitation The faculty and students of King's College were at tirst temporarily accommodated in the Parliament Buildings until the crection of the east wing of King's College admitted of the occupation of their own building. From this they were anew transferred to the old Parliament Buildings in 1853, when, by a special Act, the site of King's College was appropriated for the proposed new buildings for the use of the Parliament of Unner and Lower Canada On the return of the Legislature to Toronto, in 1856, the Faculty resumed the occupation of the old King's College Building, while one formerly in use by the Medical Faculty, situated on the site of the present Biological Building, was being adapted for their occupation. There accordingly the work of the College was carried on, pending the erection of the new University buildings These buildings were begun in 1856, and on October 4th, 1859, the top stone of the main tower was placed in position by Sir Edmund Head, the Governor-General. an old Oxford professor, the value of whose sympathy and support at this critical period in the history of the University cannot be overestimated

For thrty-four years the constitution of the University of Toronto and University College remained unchanged Other collegate bonds, reprachally denominational schools of theology, entered into affiliation with the University, and, with regard to their especial requirements, the course of study in Oriental Languages was augmented, but the Faculty of University College continued to do the work of instruction for nearly all the students

in Arts who presented themselves for examination. The candidates for examination and degrees in medical sensels in adulation with the University, and for degrees in Law the examinations were based upon text-books prescribed by the Senate, without teaching

In 1887 both the University of Toronto and University College were remodelled by the University Act. The main object of renewed legislation was to secure a more uniform standard of higher education by the union of the vanious demoinantional universities of Ontario with the Provincial University. Since the proclamation of the Act, Victoria University at Colourg, representing the Methodist body, has entered into federation with the University of Toronto. The poveraing body of this institutions is now represented on the Senate of the University of Toronto, the graduates elect representatives to the same body, and by the removal of the faculty and students of Victoria University to Toronto, where college buildings have been erected to the north of Queen's Park, the union of the two universities has been effected. Under the Federation Act, the theological colleges, also formerly in affiliation with the University of Toronto, have become federated colleges, and environ increased representation on the Senate

The Faculty of University College, by the Act 1887, consists of professors and lecturers in Classic Languages and Laterature (including lectures in Ancient History), Oriental Languages, English, French, German and Moral Philosophy All other portions of the Arts course are assigned to the Faculty of the University of Toronto, of which the lectures are made equally available to the students of University College, and those of lederating universities and colleges. For the maintenance of certain of the departments of science on a scale demanded by modern methods of research, special provision has been made by the erection of new and the enlargement of old buildings. In the new Biological Building every facility is now provided for practical training in Biology and Physiology. The Chemical Building was completed in 1895, and affords similar facilities for practical work in Chemistry.

A Faculty of Medicine in the University of Toronto was established immediately upon the passing of the Act in 1887, and teaching is imparted in all branches of medical science. All the advantages of the Faculty of Arts are available for students in Medicine, and the laboratories of scientific departments are utilized equally by students in both faculties in 1000 the new Medical Building was opened

In 1888 a stimulies was given to the study of scientific methods of farming by the sfilliation of the Ontano Agnicultural College and the adoption of a curriculum of study for the degree of Bachelor of the Science of Agriculture Similarly an examination for the degree of Dector of Dental Surgery was instituted, as a consequence of the diffusion of the Royal College of Dental Surgeons of Ontario The College of Paramacy was subsequently admitted to affiliation and a curriculum in Paramacy prescribed On the affiliation of the Toronto College of Musea curriculum of study was prepared for the degree of Bachelor of Musea. The School of

Practical Science was affiliated in 1889, and graduates of the School are specially eligible on errain conditions for the degree of Bachelor of Applied Science and of various degrees in Engineering in the University. By a recent enactment of the Senate a curriculum was prescribed leading to the degrees of Bachelor and Doctor of Pedagogy. In 1897 a course of study was established leading to the degree of Doctor of Philosophy in certain of the Arts departments. In 1897 the Ontario Veterinary College was also affiliated.

On February 14th, 1890, the Mam University building was partly destroyed by fire. In the reconstruction thereby rendered necessary, opportunity was afforded for important improvements in lighting, heating and ventilation. Considerable vettension was effected in the number, capacity and equipment of the lecture rooms and laboratories. A new library building was erected on plans embracing the most recent improvements suggested by the experience of leading universities in the United States and elsewhere. A building for the accommodation of the Gymanssium was erected in 1892 and additions to it were completed in 1894 for the accommodation of studiest societies.

One of the most important events of recent years was the federation of the University of Trinity College, which was proclaimed by His Honour the Lieutenant-Governor on the 18th of November, 1903, and came into effect on the 1st of October, 1904

The passing of the University Act, 1906, is the latest and most important development in the history of the University A short account of the changes of greatest importance will be found in the early portion of this calendar under the title "Constitution and Administration of the University"

As provided in the University Act of 1906, 5t Michael's College was declared to be a College in the Faculty of Arts on the 8th of December, 1910
On November 11th, 1919, Hart House, the gift of the Massey Foundation, was formally opened by His Excellency the Duke of Decondure, Governor-General of Canada The building is the new Undergraduates Union of the University and contains completely equipped club rooms, including common rooms, dining hall, chapel, the offices of the vanous students societies, gymnasia and theatre

THE ROYAL ONTARIO MUSEUM

The Royal Ontario Museum was officially opened by Field Marshal His Royal Highness the Duke of Connaught, Governor-General of Canada, on the afternoon of Thursday, March 19th, 19th 4 This event marked a memorable occasion in the history of Art and Science in the Province of Outano.

The Royal Ontario Museum was established under an Act of the Legislative Assembly of Ontario in the year $19\dot{1}2$ According to the Act the purposes of the museum are —

- (a) The collection and exhibition of objects of every kind calculated to illustrate the natural history of Ontario, and thereby to aid in a knowledge of what this province is able to contribute to science and industry
- (b) The collection and exhibition of objects of any kind calculated to illustrate the natural history of the world and the history of man in all ages
- (c) Such other objects as may be authorised by the Lieutenant-Governor in Council

The cost of the erection of the building and the maintenance thereof is borne in equal amounts by the Province of Ontano and the University of Toronto. The present building, inclusive of offices, is 380 feet long and for feet wide and was erected at a cost of about \$400,000. The large section of University property lying between the present building and Arenue Road has been reserved by the Board for the extension of Museum. The proposed plans show the building in the form of a hollow square with a handsome stone front faung Bloor Street.

Under Section 20 of the Museum Act the Board is empowered to establish various departments of the Museum which are to be designated "The Royal Ontario Museum of "In accordance with this by-law the Board has already established the Royal Ontario Museums of Archaeology, Geology, Muneralogy, Palasontology and Zoology

The establishment of this museum conjointly by the Province of Ontanc and the University of Toronto is due in very large measure to the enthusiasm and leadership of the late Sir Edmund Walker, the Chairman of the Board of Trustees

The Museum is governed by a Board of Trustees, a body corporate consisting of ten members. The Minister of Lands, Forests and Minist and the Minister of Education of the Province of Ontario, and the Chairman of the Board of Governors of the University of Toronto are exoftico members of this Board. The other seven members are appointed—four by the Lieutenant-Governor in Council, and three by the Governor of the University of Toronto as follows,—

Abbanted by the Lagutenant-Governor in Council

SIR EDMUND OSIER,
J B O'BRIAN, ESQ, KC,
MRS H D WARREN,
SIGMUND SAMUEL FSO

Appointed by the Governors of the University of Toronto

Sir Joseph Flavelle, The President of the University, Colonel R W Leonard

ARCHAEOLOGY

The Royal Ontario Museum of Archaeology is under the direction of C. T. Currelly, and sessioned to show the best work which was done in the different crafts by the people of the past. An attempt has been made to show the history of the development of each of the great arts which have made civilation possible, by exhibiting the best examples of the early stages of development, of the culminating point, and then of the decline

For the Stone Age the collection is very large, almost world-wide. The use of the early metals (copper and bronze) in the evolution of important tools is shown by a series of examples grouped under the Last Prehistoric Collection.

A large Egyptian series and a smaller Babylonian collection exhibit the history of pottery, stone vases, weapons, jewelry, medicinal articles, tools, textiles, sculpture and objects connected with death and burial These exhibits occupy three galleries

Two large galleries are devoted to the exhibition of ancient works of art from Greece and Italy These consist of vases that illustrate nearly all the stages of vase painting from the Aegean and the mainland, armour, statuettes, newels, and sculpture

The next gallery is devoted to a collection to illustrate the life of the common people at the time of Christ and the early Church. This ranges from rag dolls to weapons, and from combs and domestic articles to shore and tunce. In this same gallery is a large collection mainly of particle policies obtained from the tombs of Palestine, and extending in periods from the earliest times down to the periods of the Byzantine empire.

As the student is now brought through the great spread of ervilization of the Roman period, the next exhibition is of those nations that have larged behind, where prehistoric things may be illustrated more freely by peoples who have recently been in the Stoop Age. Here are shown the weapons and implements of the Eskimos, Africans, and South Sea Islanders, and of other peoples in the Stoop Age or other printive conditions.

Parallel to this gallery runs the collection illustrating the life of the American Indian This consists of a fine series of paintings, objects of the Stone Age, and survivals of early things in use by the present Indians It is mainly devoted to North America, though several cases contain Mevican, Peruvian and other South American objects

The great central hall is packed with Chinese works of art, of which we are particularly rich in tomb objects, especially terracotta sculptures and early wares. The collection of stone sculpture is also considerable, and the collection of textiles, jades, bronzes, etc., quite large. The whole forms one of the best general collections of Chinese art in evistence. No space is available for the large collection of very fine Chinese paintings possessed by the Misseuin.

South of the central hall are two galleries devoted mainly to furniture and rooms, but with a certain number of costumes, wood-carvings, etc., put in because of lack of other space for them

The cross gallery at the end contains the Japanese collections of pottery, bronzes, armour, carvings, paintings, etc

Between the large central hall and the door are parallel galleries, one devoted to the history of fasence, and filled in with musical instruments, velvets, glass, furniture, sculpture, etc., the other one devoted to lace and emboudenes, but with the general collection of arms and armour also macked into it.

The space immediately inside the door is devoted to the exhibition of recent acquisitions

MINERALOGY

In the Royal Ontario Museum of Mineralogy, which is under the direction of Proissor T L Walker, are very extensive collections of minerals and rocks. The most generous benefactors of this section are men connected with the mining industry. To make the collections more useful to visitors the large specimens contained in the high cases are provided with special explanatory labels. In the cases on the east wall of the gallery a special display of the minerals of Canada is arranged. The Director appeals to friends of the University for contributions of minerals and rocks with a view to making these collections as complete as rosestible.

During the past year the collections have been increased by donations from a large number of friends, particularly mine owners in the Cobalt, South Lorrain and Porcuoine areas

Notable presentations have been made by the Vipond Consolidated Mines, The Mining Corporation of Canada, E V Neelands, Esq., and Harvard University

Important exchanges have been made with the British Museum (Natural History), the United States National Museum, the Museum of Natural History, Paris, New York State Museum, Geological Survey of Rhodesia, Rhodesta Broken Hill Development Company, Columbia University, J G Manchester, Esq., F N Ashroft, Esq., H G Clinton, Esq., and Professor Alberto Pelloux, in addition to numerous exchanges of lesser magnitude

During the year the Museum has secured by purchase two large specimens showing the association of the minerals at the Casey silver mine, near New Liskeard, and at the La Rose mine, Cobalt, Ontario

GEOLOGY

The Museum of Geology is under the direction of Professor E S Moore, and it occupies the gallery along the west side of the basement Its ten alcoves are designed for exhibits of the immeral resources of Canada in particular and of the features of Economic, Structural, and Dynamic Geology in general This gallery is devoted specially to the exhibition of ores and other economic immeral products, and most of the exhibits have been received through the exercisive of the must be more undistry.

The more important collections in the gallery include the Cobalt sulverores, the crost and associated rocks of the Suddhury Nickels field, the coals, micas, clays, oils, building stones, and ores of Canada, the asbestos of Quebec, and the various economic materials of many countries of the world. There is an unusually fine exhibit of marbles, domestic and foreign, and the exhibit of specimens illustrating glocal phenomena in various geological periods on the several continents is usually regarded as the most complete in existence.

Of the additions to the Miseum during the past year the following are

A model of Niagara Falls, 8 v 12 feet Purchased from Mr F Burgie Suites of ores illustrating the ore deposits at Bruce Mines, Ont., Hidden Creek Mine, B C, Premier Mine, B C, Coeur d'Alene, Idaho, Butte, Mont. Homestake Mine, Lead, S Dak Collected by the Director

Collection of ornamental stones from Madagascar, England, Sicily, and Switzerland Purchased through Dr Parks

Samples of by-product oven coke, and by-products of coal-Dominion Iron and Steel Co., Sydney, N S

Collection of specimens from glacial deposits in Argentina, India, S Africa, and Colorado, specimens of Sudbury ores and native gold from various mining camps—Dr A P Coleman

Silver-cobalt-nickel ores from mines of the Cobalt district —Mr Scott Turner, Mining Corporation of Canada

Specimens from Mr Andrew Hepburn, London, England, Mr A H Means, Premier, B C, Mr Hector MacDonald, Premier, B C, Mr F E Patton, Anvox, B C, Mr L B Wright, Lead, S Dak, Mr J A Orr, Toronto, Mr S F Kelley, Toronto, Mr D L Grabill, Toronto, Mr Piercy E Hopkins, Toronto, Dr W F Ferrier, Toronto, Mr Duggan, Butte, Mont, Mr M A Hanna, Anyox, B C, Professor A MacLean, Toronto, Dr T L Walker, Toronto, and Mr Sidney Miller, Alice Arm, B C

Polished mai bles from Belgium-Société Anoyme de Merbes Le Chateau and Société Anoyme de Merbes Sprimont, Belgium

PALAEONTOLOGY

The Museum of Palacontology is under the direction of Professor W A Parks, and occupies the middle section of the top floor of the building. The collection of fossils is very extensive and contains many rare and unique specimens. It has developed from a nucleus presented by Six Edminid Walker some years ago. Among the more important echibits are the type Cambrian fossils presented by William MacKenne, the fossil seal-likes presented by Mr Fank Springer of Burington, lowa, a large fossil reptile presented by Mr Edminid Walker, Six Donald Minn, Six Lyman Mehru, Jones and others. Recently a very fine skeletion of the extinct mos of New Zealand was added, and the skeleton of a mastodon, obtained some vears are near Welland, was precaved and mounted

A series of wall cases has been installed, in which the geology and palaeontology of Canada is illustrated in a continuous but restricted manner

During the last few years a vigorous campaign has been conducted for the acquisition of fossil dinosaurs from the famous region on the Red Deer river, Alberta

Four nearly complete specimens of trachodont dinosurs have been mounted in the gallery one of these is a species new to science and the other represents a new genus and species of the most remarkable character. Two heads of another new species of trachodont have been mounter recently. There has also been placed on evhibition a very perfect head and part of the body of the horned dinosaur Centesseuris spériul, also, the rear portion of the skeleton with skin and plates insteat of a new genus of plated dinosaur. During the past wera "a very perfect head of a new genus of horned dinosaur and the head of still another trachodont have been prepared but are not yet placed in the gallery.

The department is provided with commodious storage and preparation rooms equipped with the necessary appliances for cutting and polishing specimens, and for the complex work of preparing vertebrate skeletons

pecimens, and for the complex work of preparing vertebrate skeletons.

The more important acquisitions during the past year are as follows —

The skeletons of several dinosaurs and turtles from the Red Deer river.

The skeletons of several dinosaurs and turtles from the Red Deer rive Alberta—Expedition of 1923

Carboniferous plants from Minto, N B —Dr W S Dyei, Toronto Collection of *Bryosoa* with sections—R R Hibbard, Esq , Buffalo, N Y

Scapula of a mammoth—J C Rowan, Esq., Toronto Tecth and bones of elephants and horses from Alberta—M S Tracy, Esn. McClune Hatt. Alberta

Carboniferous and Devonian fossils from the Banff Area—Professor P S Warren, University of Alberta

Models of fossil horses—Dr J W Gidley, U S National Museum Collections of Ammonites and Graptolites—Ward's Natural Science Establishment. Rochester. N Y

Selected fossils—Emile Deyrolle Fils, Paris, France Selected fossils—F H Butler, London, England Ordovician fossils from Ontario—The staff

ZOOLOGY.

The Museum of Zoology is under the direction of Professor B. A Bensley, and occupies the north portion of the top floor of the building. The first installation of specimens tools place in 1914, some time after the establishment of the remaining portions of the Royal Outano Museum, the nucleus of the new collection having been formed chiefly from Canadian material previously housed in the Biological Museum of the University. Many new additions have been made through the generosity of individual donors and through the op-operation of the Provincial Government and the Parks Department of the City of Toronto. The exhibits illustrate especially the funa of Canada, all groups of which are represented, though Birds, Mammals, and Insects predominate. Some foreign material, more especially of bridt, mammal heads and molliscian shells, has been installed as the beginning of a more general collection which will be developed later when more extensive accommodation becomes available.

ADDITIONS TO COLLECTIONS

ZOOLOGY

During the year 1923-24 the zoological collections were greatly augmented and there were important accessions to the library

(1) The following collections were received by donation

A collection of birds' eggs from Dr P E Clarkson, Toronto A collection of mounted heads of mammals of India from Major A B Wilker. Toronto

A collection of 503 bird skins, property of the late Mr James Goldie, Guelph, presented by the Honourable Lincoln Goldie, Provincial Secretary A collection of mounted birds and mammals from the estate of the late Dr. H. H. Moorhouse. Toronto

A collection of 284 bird skins from Mr H H Brown, Toronto

A case of mounted birds from Mrs Riseborough, Toronto

A collection of zoological specimens from the Royal Canadian Institute, Toronto

A collection of birds and other specimens obtained by Commander Allan Crawford on Wrangel Island, presented by Professor J T Crawford, University of Toronto

A large number of specimens of birds and mammals from the Parks Department, City of Toronto

Mrs Garret, Toronto

E G White, Ottawa

J Roberts, Credit Forks, Ont

G R C Merriam, Toronto

Miss Lillian Lucas, Toronto

H Dowler, Veteran, Alberta W Filman, Aldershot, Ont

D Stringer, Algonquin Park, Ont

I H Flemmy, Toronto

Mrs Gemmel, Toronto

T D Dockray, Toronto

F Smith, Toronto

Collections of specimens obtained through co-operation of friends of the Museum, including Mr Stuart Thompson, Dr Paul Harrington, and Mr W LeRay

A collection of birds of Iowa from Mr L I Snyder, Royal Ontario Museum of Zoology

(2) The following collections were purchased at a nominal valuation A collection of birds' eggs and 354 bird and mammal skins from Mr. A

A Collection of birds' eggs and 354 bird and mammal skins from Mr. A

A Wood, Collection, Ont

A collection of 1,184 bird and mammal skins from Mr $\,$ G $\,$ C $\,$ Garrett, Cranbrook, B C $\,$

A collection of molluscan shells from Mr E H Cole, Toronto, through the Royal Ontario Museum of Mineralogy.

(3) Individual specimens were received from the following donors

J. B Chamberlain, Lindsay, Ont
Dr Paul Helliwell, Dryden, Ont
Dr H R Reazin, Toronto

Mrs Cowan, Toronto

Dr H R Reazin, Toronto W R Campbell, Coldstream, Ont

W R Campbell, Coldstream, Ont Dr W A Costain, Toronto

D Beil, Lake Nipigon, Ont R Haidman, Toronto

Mrs D S Barclay, Toronto H W Arnold, Toronto N H Brown, Toronto

N Walker, Toronto
N Walker, Toronto
J J Steele, Toronto
Miss L Pratt, Petrolea, Ont
C W Guttendge, Toronto

G H Corsan, Toronto R Lansing, Toronto E Brown, Toronto

(4) The following donations of books have been received

Richardson, Fauna Americana Boreali (1829) and Studer, Birds of North America (1903) from the late Sir Edmund Waller, Chairman of the Board of Trustees

Elliot, Synopsis of Trochilidae (1878) from the Honourable Lincoln Goldie, Provincial Secretary

A Description of the Animal Collection of the Tower of London (1829) from Mr. W. G. Ferrier, Toronto

Collections of pamphlets from systematists of the United States and Canada

(5) Members of the scientific and technical staffs visited St Andrews, Lake Nipigon, and other localities, obtaining a large amount of zoological material. The exhibitions series of fishes has been greatly improved by addition of coloured casts of marine species, and new methods of mounting birds have been introduced.

DONATIONS OF BOOKS

Since the destruction of the University Library by fire in 1890, upwards of 55,000 volumes have been presented by various persons and organizations. For a complete list of the latter see Appendices to Calendar's since 1893. The following is a list of donors for the year ending December 31st, 1923.

Governments of-

Alberta Mexico Australia Michigan Minnesota Belgium Buttenzorg New Brinswick New Hampshire British Columbia New Jersey Canada New South Wales Chicago New York State Colorado Connecticut New Zealand England Nova Scotia France Ohro Hawan Ontario Tilinois Oregon India Onebec Saskatchewan Indiana Towns Scotland Italy South Africa South Dakota Tava Madras Sweden Manitoba Trundad Marseilles United States Massachusetts Uruguay

Aberdeen Public Library
Aberdeen, University of
Abo, Academy of
Abo, Academy of
Academia Nacional de Ciencias, Cordoba
"Acta Victoriama"
Adelaide, University of
Alba, Co., St. Louis
Alban Medical College
Alberta, University of
Alban Co., American Antenguanan Society

American Chemical Society American College of Surgeons American Geographical Society American Historical Association American Institute of Consulting Engineers American Institute of International Law American Tewish Committee, New York American Law Book Company American Medical Directors Life Assurance Company American Mining Congress American Museum of Natural History American National Red Cross American Philosophical Society American Railway Bridge and Building Association American Schools of Oriental Research Amherst College Amsterdam, Physiologisch Laboratorium Association de Medecins de la Langue Française Association of American Physicians Association of Lafe Insurance Presidents Auburn Theological Seminary Augustana College Ausschusz fur Ruhrarbeit, Darmstadt Australian Museum, Sydney, New South Wales Basel University of Baverische Akademie der Wissenschaften Baylor University Belfast, University of Bergens Museum Bibliographe Moderne, Le Birmingham Public Library Bishon's College, University of Bodiesan Library Boston Public Library Boston, University of Botanisk Haves Bibliotek, Copenhagen Rowdom College Bradley Polytechnic Institute Brentwood College

Brooklyn Institute of Arts and Sciences

Breslau University Bristol, University of British Columbia, University of British Museum

Brown University

Brussels, University of Bryn Mawr College

Buffalo Historical Society

Buffalo, University of

Bulletin des Recherches Historiques Bureau of American Ethnology

Bureau of Industrial Research, New York

Bureau of Social Hygiene, New York

Calcutta University

California, University of "Canada Français, Le"

Canadian Bank of Commerce

Canadian Engineering Standards Association

Canadian Historical Association

Canadian Military Institute

Canisius College

Canterbury College, New Zealand

Canton Christian College

Cape Town, University of

Captain Scott Antarctic Fund, Science Museum, South Kensington

Cardiff Naturalists' Society

Carnegie Corporation of New York

Carnegie Endowment for International Peace

Carnegie Foundation for Advancement of Teaching

Carnegie Institute of Technology

Carnegie Institution of Washington Carnegie Library, Pittsburgh

Carnegie Museum, Pittsburgh

Carnegie Trust for the Universities of Scotland

Case School of Applied Science Catholic University of America

Chicago, University of

Chinese Legation, Washington

Cincinnati, University of

Clark University

Clarkson College

College Saint Toseph Collège de St Laurent

College of Charleston

College of the Pacific, California

College of Physicians and Surgeons of Ontario College of Physicians of Philadelphia

Columbia University

Copenhagen, K Store Bibliotek

Copenhagen, Universitetets Zoologiske Museum

Copenhagen, University of

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Cornell University Dalhousie University

Detroit Historical Society Detroit Observatory

Deutsche Dendrologische Gesellschaft

Dominion Astrophysical Observatory, Victoria

Dominion Engineering Works

Dominion Observatory, Canada Dove Marine Laboratory

Dropsie College

Dublin, University of Durham, University of

Eastman Kodak Co, Rochester

Ecole libre des Hautes Etudes

Ecole libre des Sciences Politiques, Paris

Edinburgh, University of Edmonton Public Library

Edward Thompson Co

Engineering Foundation, New York,

Episcopal Theological School, Cambridge

Esthonia Consulate, New York.

Field Museum of Natural History

Food Research Institute, Stanford University Forbes Library, Northampton, Massachusetts

Fraser Publishing Co Geneva, University of

Gesellschaft für Erdkunde zu Berlin

Grace Hospital, Detroit

Grand Rapids Public Library

Grenoble, University of

Hamburg, University of

Hamilton Scientific Association

Hannover Technische Hochschule, Darmstadt

Hannover, Flugfolio

Harcourt Brace and Co

Hartford Semnary Foundation

Harvard College Observatory

Harvard University

Harvard University Museum of Comparative Zoology

Havana, University of

Haverford College

Hong Kong, Royal Observatory

Hydro Electric Power Commission Illinois State Historical Library

Illinois, University of Imperial Cancer Research Fund

Imperial Life Association Co, Toronto
Imperial Order of the Daughters of the Empire

India Office, London, England

Indian Museum

Indiana Academy of Science

Indiana, University of Indicator Publishing Co

Indicator Publishing Co
Institucio catalana d'historia natural

Institut d'Estudis Catalans, Barcelona

Institut Oceanographique de Monaco

Institute of Chemistry
Institute of Science and Industry, Australia

Institution of Civil Engineers, London

Instituto Geologico de Mevico

"Inter-America"
International Acceptance Bank, New York

International Apple Shippers' Association

Interstate Commerce Commission
Investment Bankers' Association of America

Iowa Geological Survey

Iowa State College Iowa, University of

Irving Bank-Columbia Trust Co. New York

Jardim Botanico, Rio de Janeiro

Jardin Botanique de l'etat a Bruxelles

Jewish Theological Seminary Jewish Weifare Board

John Carter Brown Library

John Crerar Library Johns Hopkins University

Kansas, University of

King Edward VII, Sanatorium

k. Vitterhets Historie och Antikvitets Akademien Copenhagen, University of

'Kosmos"

Kyushu Imperial Umversity, Japan

Lak. Forest College La Plata, University of

Lausanne University Laval University Quebec

Law Sucrety of Unper Canada

League of Nations Leeds, University of Leiden, University of Leipzig, University of "Les Annales," Ottawa

Lewis Institute, Chicago Lithuanian Legation

Lloyd Library

London School of Economics and Political Science London, University of

London, University College Hospital Medical School Long Island College Hospital

McCormick Theological Seminary

McGill University McGraw-Hill Book Co

McMaster Monthly

Manchester Literary and Philosophical Society Manchester Steam Users' Association

Manchester, University of

Marine Biological Laboratory, Massachusetts

Marquette University

Massachusetts College of Pharmacy Massachusetts Institute of Technology

Medical Research Council, London Medical Society of County of Kings, Brooklyn

Melbourne University
Meteorologiska Centralanstalten Stockholm

Miami University Michigan College of Mines

Michigan Conege of Mines Michigan Historical Commission Michigan, University of

Milwaukee Public Museum Minnesota Historical Society

Minnesota University

Mississippi Historical Department Mississippi Valley Historical Review

Missouri Botanical Garden Missouri Historical Society

Missouri, University of Montefiore Hospital, New York

Moriaka Imperial College of Agriculture and Forestry Museum d'Histoire Naturelle, Paris

Museum of the American Indian

National Advisory Committee of Aeronautics, Washington National American Woman Suffrage Association

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The following portiaits and works of ait have been presented to the University

- 1 A portrait of the late Hon William Hume Blake (oil painting
- by T Hamel), presented by the Hon Edward Blake
- 2 A portrait of the Hon Edward Blake, Chancellor 1876-1900 (oil painting by E Wyly Ghier), presented by graduates and friends
- $3\,$ A portrait of Professor E J Chapman (oil painting by Miss Frances Sutherland), presented by the artist
- 4. A portrait of the late Professor Henry Holmes Cloft (oil painting by A. Dickson Patterson), presented by friends of Piofessor Cloft
- A portiant of the late Piesident, Dr McCaul (oil painting by A Dickson Patterson), presented by the artist.
- 6 A port act of the late Hon Thomas Moss, Chief Justice of Ontario, Vice-Chancellor 1875-1881 (oil painting by Miss C. S Berthon, copy of oil painting by M Berthon), presented by the Hon Charles Moss, Chief Justice of Ontario, Vice-Chancellor of the University
- 7 A portrait of the late Right Reverend Bishop Strachan (oil painting copy), presented by the Council of University College
- 8 A portrait of the late President, Sir Daniel Wilson (oil painting by A Dickson Patterson), presented by friends of Sir Daniel Wilson
- 9 A portrait of Professor E J Chapman (oil painting by A Dickson Patterson), presented by graduates and friends
- 10 A manble bust of the late Professor George Paxton Young (by Hamilton McCarthy), presented by friends of Professor Young
- 11 A portrait of the late Professor George Paxton Young (oil painting by W Allaire Shortt), presented by the artist
- 12. A steel engraving of Sir John Colboine, afterwards Lord Seaton, Lieutenant-Governor of Upper Canada from 1830 to 1838, presented by Mr Henry Hutchison
- 13 "The Call to Duty" (oil painting by Paul Giovanni Wickson), presented to the Medical Faculty by the artist
- 14 "The Marriage of the Duke of York" and "The King of Denmark's First Vist," commemorative medals, presented by the Town Clerk of London, Eng.
- 15 A bronze medal commemorative of the sesquicentennial anniversaly of the founding of the College of New Jersey (Princeton University), presented by the trustees of Princeton University.

- 16 A bronze medal commemonative of the 150th anniversary of the capture of Louisbourg in 1745, presented by the Louisbourg Memorial Committee of the General Society of Colonial Wars
- 17 A bronze medal commemorative of the 50th anniversary of Sir George Gabriel Stokes' appointment to a professorship in the University of Cambridge
 - 18 Busts of Dr W T. Aikins, Dr J H. Richardson, and Di
- H H Wright, by the Medical Faculty and other friends
- 19 A bust of the late Hon George Brown, and a portrait of the late Professor Cloft, by Dr Reeve
- 20 Portraits of their Royal Highnesses the Prince and Princess of Wales, presented by their Royal Highnesses as a souvenir of their visit to the University in 1901
- 21 A portrait of the Hon. Sir William Mulock, LLD, ex-Vice-Chancellor of the University, presented by members of the Senate and other friends
- 22 A steel engraving after Turner, by the late Sir Daniel Wilson, presented by Charles James Heywood, Egg., Manchester, Eng.
- 28 A collection of medals and coins, bequeathed by the late D₁. Scadding
- 24 A portrait of Piofessor Goldwin Smith, presented by J. Ross Robertson, Esq
- 25 A portrait of Dr. John Hoskin (oil painting by Robert Harris), presented by members of the Board of Governors and of the Senate and other friends
- 26 A postrait of Dr Maussee Hutton, Principal of University College (oil painting by William Cruskshank), presented by the Board of Governors
- 27 A portiant of Sir Daniel Wilson, late President of the University of Toronto (oil painting by Sir George Reid), presented by members of the Board of Governors and of the Senate and other friends
- 28 A portrait of Dr. R A Reeve (oil painting by Curtis Wilhamson), presented by members of the Board of Governors and of the Senate and other friends
- 29 A portrait of Dr John Galbraith (oil painting by J W L Forster), presented by graduates of the Faculty of Applied Science
- 30 A portrait of Dr. James Loudon, ex-Piesident of the University of Toronto (oil painting by William Orpen), presented by the members of the Senate and other friends
- 31 A portrait of Dr James Loudon (oil painting by Frederick Victor Poole), presented by Mis Loudon
- A postrait of the Hon Sir William Ralph Meredith, LL D,
 Chancellor of the University (oil painting by William Strang),

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presented by members of the Board of Governors and of the Senate and other friends $% \left(\mathbf{r}\right) =\left(\mathbf{r}\right)$

- 88 A portrant of the late Hon Joseph Curran Morrison, Chancellor of the University of Toronto, 1860-1876 (oil painting by Chailes Haywaid) pisented by Judge Hardy of Biockville
- 34 A portrait of Dr William Henry van der Smissen, Professor Emeritus of German in University College (oil painting by Professor Philip Otto Schafer), presented by Mrs. van der Smissen
- 35 A bronze medal commemorative of the 300th Anniversary of the founding of the University of Groningen
- 36. A portrait of the late John Langton, MA, Vice-Chancellor of the University of Toronto, 1856-1861 (oil painting by E Wyly Grier) presented by his surviving sons, WA Langton, John Langton and HH Langton
- 37 A postrast of the late Larratt William Smith, DCL, KC, Vice-Chancellor of the University of Toronto, 1873-1875 (oil painting by G. T Berthon), presented by his family
- 88 "C'est l'Empereun" (oil painting by H de T Glazebrook), presented by the artist
- 39 A portrait of the late William Oldright, M.A., M.D., Professor of Hygiene in the University of Toionto, 1887-1910 (oil painting by E. Wyly Grier), presented by his children
- 40 A portiant of James Mavor, Ph D, Professor of Political Economy in the University of Toronto (oil painting by Horatio Walker, Esq. LL D), presented by the artist
- 41 A postrait of Charles Vincert Massey, M.A., a member of the Board of Governors of the University (oil painting by F. H. Varley), presented by friends of Mr. Massey
- 42 A portrait of Robert Ramsay Wright, MA, DSc, LLD, Vice-Fresident and Dean of the Faculty of Arts of the University of Toronto, 1901-1912, and Professor Emeritus of Biology (on namining by Arnesly Brown), mesented by the Board of Governors
- 43 A portrait of Alfred Baker, M. A., LLD, Dean of the Faculty of Arts of the University of Toionto, 1912-1919, Professor Emeritus of Mathematics (oil painting by E. Wyly Girel), presented by members of the Board of Governors of the Senate and other friends
- 44. A portrait of Wilham Hodgeon Ellis, MA, MB, LI.D. Dean of the Faculty of Applied Science and Engineering of the University of Toronto, 1914-1919, and Professor Emeritus of Applied Chemistry (oil painting by E Wyly Grier), presented by the members of the staff of the Faculty of Applied Science and Engineering
- 45 Fifteen water-colour sketches of Canada and Edinburgh by Sir Daniel Wilson, purchased by the Board of Governors

- 46. A port aut of Chester Daniel Massey, a member of the Board of Governors of the University from 1906 until 1920 (oil painting by F. H Varley), presented to the University by the Board of Governors
- 47. A collection of engravings of Old Montreal, done by the late Mr Learmont, from paintings by H. Bunnett, and presented by Mrs Learmont, of Montreal
- 48 A pottrait of Piofessor Irving Heward Cameron, M.B., Ll. D., Professor of Surgely in the University of Toronto, 1897-1920 (oil painting by F. H. Varley), presented to the University by the graduates of the Faculty of Medicine
- 49 A portrait of the late Professor John Joseph Mackenze, BA, MB, Professor of Pathology and Bacteriology in the University of Toronto, 1900-1922, (oil painting by Allan Barr), presented to the University by friends of Professor Mackenzie

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| UNIVERSITY STUDIES | |
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| The following is a list of studies published up to January, 1921 | |
| HISTORY AND ECONOMICS | |
| Review of Historical Publications relating to Canada, edited by Professor George M Wrong and H H Langton Vol. I-XXII, Publications of the years 1896-1917 Vols. 2, 3, 5-18 (in cloth), each | \$2 00 |
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| MO | hol on oxalic esters, by N C Qua and D McLaren | |
| | 111 The effect of chlorine on periodic precipitation, by | 0 25 |
| No | Miss A W Foster | |
| 31- | | 0 25 |
| No | 112 The scattering of light by dust-free liquids, by W H MARTIN | 0 25 |
| No | 113: Friedel and Crafts' reaction-nitrophthalic anhy- | 0 110 |
| | drides and acetylaminophthalic anhydrides with ben- | |
| | zene and aluminum chloride, by W A. LAWRANCE | 0.25 |
| No | 114: Toxicity and chemical potential, by W LASH | 3 40 |
| 0 | MILLER | 0.25 |
| | • | 0.00 |

| | Appendix | 105 |
|-----|---|------|
| No | 115 The toxicity towards anthrax and staphylococcus of solutions containing phenol and sodium chloride, | |
| No | by J S LEMON . 116 Some phenomena observed in electric furnace arcs, | 0 25 |
| | by J KELLEHER 117 The toxicity of mercuric chloride and its solubility | 0 25 |
| | in aqueous alcohol, by J STANLEY LAIRD, The toxicity towards staphylococcus of dilute phenol solutions con- | |
| Νn | taining sodium benzoate, by Kenneth E Burgess . 118 The action of methylene-blue and certain other | 0 25 |
| | dyes on living and dead yeast, by CHARLES G FRASER 119 The chemical potential of phenol in solutions con- | 0 25 |
| 140 | taining salts, and the toxicity of these solutions to- wards anthiax and staphylococcus, by J STANLEY LAIRD | 0.05 |
| No | | 0 25 |
| No | 121 The effect of alcohol on the toxicity of phenol to- | |
| No | | 0 25 |
| | toxicity of phenol and phenol-salt solutions towards yeast, by CHARLES G FRASER | 0 26 |
| | 128 Friedel and Crafts' reaction, by Maurice E Smith, H N Stephens and T C McMullen | 0 25 |
| No | 124 The acclimatization of yeast to ammonium fluoride and its reversion in wort, by Ellis I Fulmer | 0 25 |
| INO | 125 Friedel and Crafts' reaction Some substituted phthalic anhydrides with toluene and aluminum chlor- | |
| No | | 0 25 |
| | phide by electrolytes, by E. F Burron and E D Mac- INNES | 0 25 |
| | 127 The rate of formation and the yield of yeast in wort, by NORMAN A CLARK | 0 25 |
| No | 128 The scattering of light Note on Wolski's paper on optically empty liquids, by Frank B Kenrick, The scattering of light by dust-free liquids, II, by W H | |
| Νo | MARTIN and S LEHRMAN 129 The pressure-volume relation of superheated | 0.50 |
| No | hquids, by K L Wismer 130 The relation between light-absorption and light- | 0 50 |
| | scattering for liquids, W H. Martin | 0 50 |
| -10 | with a note on the use of liquid air as a refrigerant, by JOHN BRIGHT FERGUSON | 0 50 |
| | oy come batter reacceds. | 0.00 |

50 50 K٨ ΕO

| No | 132 The Friedel and Crafts' reaction with phthalic | |
|-----|---|------|
| 37- | anhydride, by T. C McMullen | 0 50 |
| 140 | 133 The diffusion of hydrogen and helium through silica glass and other glasses, by G A WILLIAMS and | |
| | J B FERGUSON | 0 50 |
| No | 134 The melting and freezing point of sodium chloride, | |
| | by John Bright Ferguson | 0 50 |
| Νo | 135 Light scattering Bibliography, by W H MARTIN | 0.50 |
| No | 186 The scattering of light by dust-free hquids-changes | |
| | with temperature, by W H MARTIN and S LEHRMANN | 0 50 |
| Νo | 137 The relation between current, voltage, and the | |
| | length of carbon arcs, ty A E. R WESTMAN . | 0.50 |
| No | 138 The oxides of iron, by JOHN B FERGUSON | 0 50 |
| Νo | 189 Some preparations from Maleic and Fumatic Acids, | |
| | by Harold G Oddy | 0.50 |
| Νo | 140 The scattering of light by liquids Effect of direc- | |

tion on polarization and intensity, by W H MARTIN, and other papers from the department of chemistry . 0.50 No 141 Multiple electrode systems, by A HAROLD HEATLEY 0 50 THESES ACCEPTED FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

FREDERICK HUGHES SCOTT 1900

The Structure, Micro-Chemistry and Development of Nerve Cells, with special reference to their nuclein compounds. University of Tolonto Studies, Physiological Series No. 1, 1900 Transactions of the Canadian Institute 1898-99, Vol 6, Parts 1 and 2, pp 405-438

JOHN CUNNINGHAM McLENNAN 1900

Electrical Conductivity in Gases Traversed by Cathode Rays 1900 Philosophical Transactions of the Royal Society of London Series A, Vol 195, pp 49-77

WILLIAM ARTHUR PARKS 1900

The Huronian of the Basin of the Moose River University of Toronto Studies, Geological Series, No. 1, 1900

FRANCIS BARCLAY ALLAN 1901.

The Basic Nitrates of Bismuth, 1901 American Chemical Journal, Vol XXV, No 4, April, 1901, pp 307-315

ROSS GEORGE MURISON 1902

The Mythical Serpents of Hebrew Literature, 1902 RICHARD DAVIDSON 1902

The Semetic Permansive-Perfect, 1902

WALTER REUBEN CARR 1903

On the Potential Difference required to produce electrical discharges in gases at low pressure, an extension of Paschen's Law Transactions of the Royal Society of Canada, Second Selies, 1902-03 Vol VIII, section III, pp 161-182 1902

On the Laws governing electric discharges in gases at low pressures. Philosophical Transactions of the Royal Society of London, Series A. Vol 201, pp 403-433

EMMA SOPHIA BAKER 1908

Experiments on the Æsthetic of Light and Colour University of Toronto Studies, Psychological Series, Vol I, No. 4

Spectrally Pure Colours in Binary Combinations University of Toronto Studies, Psychological Series, Vol. II., No. 3 1902.

GEORGE GALLIE NASMITH 1903 The Chemistry of Wheat Gluten

> University of Toronto Studies, Physiological Series, No. 4 The Transactions of the Canadian Institute, Vol VII 1908

CLARA CYNTHIA BENSON 1903

The Rates of Reactions in Solutions containing Ferrous Sulphate, Potassium Idolide and Chiomic Acid.

The Journal of Physical Chemistry, May, 1908, pp 356-388.

WILLIAM EDINGTON TAYLOR 1902

The Ethics and Religious Theories of Bishop Butler Toronto The Biyant Press 1903

THOMAS EAKIN 1905

The Text-book of Habakkuk, chap I 1-II 4 Toronto E D. Apted, nd

THOMAS RUTHERFORD RORINSON 1906

Stereoscopic Vision and its relation to Intensity and Quality of Light Sensation. University of Toronto Studies Psychological Series Vol II. Nos 2 and 3 Reprint nd

JOHN RANSON ROEBUCK 1906

The rate of the Reaction between Arsenious Acid and Iodine in Acid Solution, the rate of the reverse Reaction, and the Equilibrium between them

The Journal of Physical Chemistry, Vol VI., p 365, and Vol IX. p 727 Reprint nd

MAITLAND CREASE BOSWELL 1907

The Course of the Oxidation of -Naphthoquinone to Phthalic Acid and the Detection and Estimation of a-Naphthoquinone, 8 -Naphthogumone, Phthalome Acid and Phthalic Acid Toronto The University Press n.d.

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PATRIC EMPRON DELITEY 1907

The Rate of Oxidation of Arsenous Acid by Chromic Acid and the Induction of Arsenious Acid by the Reaction between Chromic and Hydriodic Acids The Journal of Physical Chemistry, Vol XI Reprint. n d

DAVID STRATER DIV 1908 Complementarism; Physical and Psychical University of Toronto Studies Repuint nd

AUSTIN PERLEY MISSISS 1909

The Place of Hosea I -III in Hebrew Literature

Toronto E D Apted nd

JOHN TRANCIS MACKEY 1909 Part I Some Esters of Arsenious Acid

Part II Some Esters of Antimony Trioxide Reprint nd

CATUTE ALEXANDER MCRAE 1910.

The Hebrew Text of Ben Sıra (Ecclesiasticus)

Toronto Queen Printing Co n d

WILLIAM ROBERT TAYLOR 1910

The Originality of the Hebrew Text of Ben Sira in the light of the Vocabulary of the Versions

Tolonto E D Apted nd

WALTER DANIEL BONNER 1912

Experimental Determination of Binodal Curves, Plant Points, and Tie Lines in Fifty Systems, each consisting of Water and Two Organic Liquids ELI FRANKLIN BURTON 1910

On the Physical Aspect of Colloidal Solution University of Toronto Studies, Physical Series, No 36

SAUL DUSHMAN 1912

The Behaviour of Copper Anodes in Chlorine Solutions

The Journal of Physical Chemistry, Vol XIV Reprint nd JOSEPH ROY SANDERSON 1912

The Relation of Evolutionary Theory to Ethical Problems.

ABSALOM COSENS 1913

A Contribution to the Morphology and Biology of Insect Galls VIVIAN ELLSWORTH POUND 1912

I The Absorption of the Different Types of Beta Rays totogether with Study of the Secondary Rays excited by

II On the Secondary Rays excited by the Alpha Rays from Polonium Part I

On the Secondary Rays excited by the Alpha Rays from Polonum Part II

PERCIVAL WILSON SPENCE 1912

Moray Transitions in Israel Between 1200 and 700 B.C.

EDWARD MOORE JACKSON BURWASH 1914 The Geology of Michipicoten Island

ROBERT CORNELL APMSTRONG 1914

Light from the East, Studies in Japanese Confucianism

SAMUEL BEATTY 1915 Extensions of Results Concerning the Derivatives of an Alge-

braic Function of a Complex Variable ROY BALMER LIDDY 1915

The Relation of Science and Philosophy

JAMES BERTRAM COLLIP 1916

On the Formation of Hydrochloric Acid in the Gastric Tubules in the Vertebrate Stomach

HARRY VINCENT ELLSWORTH 1916

A Study of Certain Minerals from Cobalt, Ontario WILLIAM HARVEY MCNATRN 1916

Growth of Etch Figures

EDWIN JOHN PRATT 1917

Studies in Panline Eschatology and its Background

HENRY FRANKLIN DAWES 1918

Image Formation by Crystalline Media A Lens Refractometer

On the Ionisation by Collision in the gases Helium and Argon RAYMOND COMPTON DEARLE 1919

Some Investigations in the Infra-Red Regions of the Spectrum ELLIS INGHAM FILLMER 1919

The Action of Certain Poisons and of Ammonium Fluoride on Yeast.

ARCHIBALD BRUCE MAGALLIM 1919

The Relation of Vitamines to the Growth of Young Animals Mossie May Waddington 1919

The Development of British Thought from 1820 to 1890

JAMES HERREDT WHITE 1919

On the Biology of Fomes Applanatus FILTON HENRY ANDERSON 1920

Substance in John Locke's Theory of Knowledge

HAROLD KEITH BOX 1920

Dental and Associated Tissues EDWARD HORNE CRAIGIE 1920

On the Relative Vascularity of Various Parts of the Central Nervous System of the Albino Rat

110 APPRNDIX

ROBERT KAY GORDON 1920

John Galt

KENNETH HAV KINGDON 1920

Low Voltage Ionisation

Phenomena in Mercury Vapour

The Magnetisation of Ships and its Application to the Opera-

tion of Magnetic and Electro-magnetic Devices External to the Shin

NORMAN ASSIMELL CLARK 1921 The Growth Rate of Yeast

WALTER ALBERT LAWRENCE 1921.

(1) Friedel and Crafts' reaction-intribhthalic anhydrides and acetylaminophthalic anhydrides with benzene and aluminium chloride (2) Friedel and Crafts' leaction

MAURICE EDWARD SMITH 1921

Friedel and Crafts' Reaction—the carbmethoxy—henzoyl chlorides with a omatic hydrocarbons and aluminium chloride

George Howard Brother, 1922

A Study of Some Periodic Phenomena in Electro-Chemistry. GEORGE HENRY DUFF 1922

The Development of the Geoglossaceae

WALTER RAYMOND PETZER 1922.

The Peniodic Phenomena observed during the Electrolysis of Aqueous Solutions of Sodium Sulphide

OLIVER HENRY GARRIER 1922 Creatine and Creatinine

THOMAS CREIGHTON McMULLEN 1922

Friedel and Crafts' Reaction the Intermediate Compounds formed, their properties and Reactions

HENRY ALLEN MCTAGGART 1922

Electrification of Liquid Surfaces

WILLIAM HOWARD MARTIN 1922

The Scattering of Light by Dust-free Liquids

PAUL MICHAEL O'SULLIVAN 1922

Studies on the Pathological Physiology of Shock.

WILLIAM SPAFFORD DVER 1923

Stratigraphy and Palaeontology of the Credit River Section of the Upper Cincinnatian Series of Ontario

MISS NORMA HENRIETTA CARSWELL FORD 1923

A Comparative Study of the Abdominal Musculature of Orthon teroid Insects

GRORGE FREDERICK KINGSTON 1923 The Nature of Behef

ROBERT JAMES LANG 1923

High Potential Spark Spectra George Herbert William Lucas 1923

Chemical Study of Bios

CHARLES CLIFFORD MACKLIN 1923

The Skull of a Human Fetus of 43 Millimeters Greatest Length

HAROLD GRANT ODDY 1923

Friedel and Crafts' Reaction -Some preparations from Maleic and Fumaric Acids

WILLIAM WALKER SHAVER 1923

Some Researches in Spectroscopy and Permeability GORDON MERRITT SHRUM 1923

Some Experiments in Spectroscopy and Low Temperatures

HAROLD BOYD STRTON 1923

Some Characters of Xylem Tissue in Cycads

The Bar of Samo and Primordial Pit in the Gymnosperms

WILLIAM EWART STAPLES 1923

The Elihu Speeches in the Book of Job

MISS JESSIE GERTRUDE WRIGHT 1923

The Pit-Closing Membrane in the Wood of the Lower Gynnosperms

IOHN FRANCIS TODD YOUNG 1923 Studies in Spectroscopy and Magnetism

FRANK BOLTON ADAMSTONE 1924

The Distribution and Economic Importance of the Bottom Fauna of Lake Nipigon

GARVEN HITCH REPRETEY 1924 Studies on Botrytis

HENRY BORSOOK 1924 The Synthesising Action of Pensin

JAMES TRESAWNA BURT-GERRANS 1924

The Diffusion of Copper in Solutions of Copper Sulphate containing Sulphuric Acid

DONALD MUNRO PUNDLAY 1924

The Reaction of Aqueous Alcoholic Solutions

Insulin and some basic dyestuffs RUSSELL EARLY FORESTER 1924

Studies in the Ecology of the Sockeye Salmon

APPENDIX

MISS CLARA WINIFRED FRITZ 1924

112

Cultural Criteria for the Distinction of Wood-destroying Fungi

ALEXANDER HENRY LEIM 1924

The Life History of the Shad (Alosa Sapidissima) with Reference to the Factors Limiting its Abundance

FREDERICK REGINALD LORRIMAN 1924

Some Derivatives of Acenaphthene

Miss Flora Isabel MacKinnon 1924

The Philosophical Writings of Henry More

Peter Joseph Moloney 1924

On the Purification of Insulin

JOSEPH ALAN MORRELL 1924 Kinetics of Arginase

MISS EDITH MARIORY TAYLOR 1924

The Action of Acids on Yeast

Percival Sidney Warren 1924

The Geology of the Banff Area

Albert Ernest Roberts Westman 1924

The Relation Between Current Voltage and Length of Carbon Arcs

EXTENSION LECTURES

These lectures are offered to the public so that it may be possible for those interested in any part of Ontario, to avail themselves of either single lectures or short courses of lectures on literary and scientific subjects. If requests are made for lectures not found on the present list, an effort will be made to provide them

The cost of each lecture, if given within the Province of Ontario, consists of the lecturer's travelling and entertainment expenses, plus five dollars. On his return from delivering a lecture, the professor reports to the Extension Office the amount of his expenses, this information is sent forward to the person who arranged for the lecture and a cheque, made payable to the lecturer and at par in Toronto, is then to be mailed to the Extension Office

During the session of 1922-23 several series of lectures on Social Hygicne were arranged in a number of centres in the Province A list of the lectures available this year, with names of lecturers, will be sent on request

The Faculty of Medicine, University of Toronto, in co-operation with the Ontario Medical Association, offers lectures to medical organizations throughout Ontario Particulars regarding these may be obtained from the Secretary of that Faculty

All correspondence with regard to lectures, and all money paid for lectures or for lecturers' expenses, should be sent to the Director, University Extension, University of Toronto

E A ALLCUTT, M Sc

- 1 The Panama Canal (Illustrated)
- 2 Volcanoes (Illustrated)
- 3 Machines for Testing Materials (Illustrated)
- 4 Diesel Engines (Illustrated)
- 5 Mond Gas Plants (Illustrated) 6 Suction Gas Plants (Illustrated)
- LOUIS ALLEN, Ph D

1 The International Language Movement (Esperanto)

G R ANDERSON, MA, AM

- A Various Phases of Illumination
 - 1 House Lighting (Illustrated)
 - 2 Industrial Lighting (Illustrated) 3 Lighting of Public Buildings (Illustrated)
 - 4 Street Lighting (Illustrated)

- B Photography
 - 1 Landmarks in the Development of Photography (Illustrated)
 - 2 Applications of Photography (Illustrated)
 - 3 Photography in Colour (Illustrated)
- I T BURT-GERRANS Phm B . M A
 - 1 Automobile Storage Batteries (Illustrated)
- E F BURTON, BA, PhD
 - 1 The Properties of Colloidal Solutions (With experimental illustrations)
 - 2 Liquid Air (With experimental illustrations)
 - 3 The Structure of the Atom (Shdes)
- J Home Cameron, M A
 - 1 French Art (Illustrated)
- C A CHANT, MA, PhD
 - 1 The Einstein Theory and the Australian Echipse
 - 2 The Universe of Stars
 - 3 Our Little System and the Great Beyond
 - 4 The Planet Mars
- W H CLAWSON, BA, NB, MA, PhD
 - 1 Shakespeare's Theatre (Illustrated)
 - 2 The Popular Ballads in Britain and America
- C K. CLARKE, MD, LLD
 - 1 The International Movement for Mental Hygiene
 - 2 The Intelligence Tests from the Standpoint of Psychiatry 3 The Twenty Per Cent of School Children Below the
 - Average 4 Some of the Birds of Ontario (Illustrated)
- W A CLEMENS, MA, PhD
 - 1 The Life of our Inland Waters (Illustrated)
 - 2 The Biology of Lake Nipigon (Illustrated)
 - 3 Our Inland Fisheries and their Conservation (Illustrated)
- A P COLEMAN, MA, PhD, FRS, LLD
 - I Geology The Ice Age, Mountain Building, the Tooth of of Time, Volcanoes, Ancient Ice Ages
 - 2 Geography The Rocky Mountains, Labrador, Gaspé, South America, South Africa, Australia and New Zealand, India and the Far East, Scandinavia and Spitsbergen, Mexico (All illustrated)

G A CORNISIT. B A

- 1 Egypt in the Days of Tutankhamen (Illustrated)
- 2 The Japanese and their Industries (Illustrated)
- 3 Palestine and Mesonotamia (Illustrated)
 - 4 Canadian Railways (Illustrated)
 - 5 The New Europe (Illustrated)
- 6 Our Greatest Travellers (A Lecture on Birds) (Illustrated)
 - 7 The History of the Great Lakes
 - 8 Niagara Falls
 - 9 The Romance of the Cotton Plant (Illustrated)
- 10 The World's Food Supply, or Agriculture of the Future
- 11 Turkey and Armenia (Illustrated)
- 12 Canada's Second Story (A Lecture on Northern Canada) (Illustrated)

Note - Coloured lantern slides and, in some cases, movingpicture films are used to illustrate these lectures

E A DALE MA

- 1 Algernon Charles Swinburne
 - 2 The Roman Plays of Shakespeare and Jonson Compared
 - 3 Ballad Poetry
 - 4 Some English Mystical Poets
 - 5 Greek Tragedy and the Greek Theatre
 - 6 The Genus of Sir Walter Scott
 - 7 Theories of the Primitive Life and Development of Man in Greek and Latin Literature
 - 8 The Value of the Greek and Latin Classics to the Modern World
 - 9 The Vanishing Art of Reading Aloud-What to Read and How to Read It
- 10 The Roman World in the Early Days of Christianity

SAINT-ELME DE CHAMP, B ès L. Lvons, OIP

- 1 Maria Chandelaine
- 2 Erckmann-Chatrian
- 3 Pasteur
 - 4 The Religious Question in France
- 5 The French in Ouehec
- 6 For a Better Understanding of France

R D DEPRIES, MD. DPH

- 1 Health Education in Relation to Local Public Health Orgamzation and Administration
- 2 The Value of the Practice of Preventive Medicine to the Layman

3 Method of Preparation of Vaccines, Antitoxins and Serun and their use in the Control of Communicable Disease (Illustrated)

O W ELLIS, M Sc

- 1 Brass in the Light of Modern Research (Illustrated)
 - 2 Cast Iron in the Light of Modern Research (Illustrated (Short Course of Four Lectures)
 - 3 Defects in Metals and Alloys (Illustrated)
 - 4 The Early History of Iron and Steel (Illustrated)
- 5 The Heat Treatment of Steel (Illustrated) (Shor Course of Four Lectures)
 - 6 The Microscopic Study of Metals and Alloys (Illustrated Note—Of these lectures Nos 2 and 5 are of a rather technical nature

J H FAULL, BA, Ph D 1 Mushrooms

1 Mushrooms Edible and Poisonous

J G FITZGERALD, M D

Single Lectures

- 1 Public Health Education, its Bearing on Communit Welfare
- 2 The Preparation of Antitoxins used in Preventing and Treating Communicable Diseases (Illustrated)
- 3 The Value of the Public Health Laboratory to the Community

Courses of Lectures

- 1 Etrology, Methods of Spread and Means of Control of some of the Important Communicable Diseases (Six Lectures)
- Official and Voluntary Health Promoting Agencies (Three Lectures)
 How Man Protects Himself against Harmful Bacteria
 - (Two Lectures)

D T Fraser, BA, MB, DPH

- Health Education in Relation to Local Public Health Organization and Administration
- 2 The Value of the Practice of Preventive Medicine to the
- 3 Method of Preparation of Vaccines, Antitoxins and Serums and their use in the Control of Communicable Diseases (Illustrated)

L GILCHRIST, MA, PhD

- 1 X-Rays and Radioactive-Radiations, and their Applications 2 Light Wayes and their Uses
 - 3 The Production of Colour in Insects and Birds
- P GILLESPIE, B A Sc , C E , M Sc
- 1 Canadian Engineering Achievements of the Past Fifty Years (Illustrated)
 - 2 Sandford Fleming, Engineer (Illustrated)

E Goggio, AB, MA, PhD

- 1 Dante
 - 2 The Great Ports of Modern Italy
 - 3 Modern Italian Novelists
 - 4 Women Writers of Present-Day Italy
 - 5 Literary Relations between Italy and America
- 6 Longfellow and Italy

V E HENDERSON, MA, MB

- A Brief History of Architectural Development in Europe (Illustrated)
 - 2 A Comparison of French and English Architecture during the period from 1000-1500 A D
 - 3 A Comparison of the Nervous Systems and Accompanying Habits of some of the Lower Animals
- L E HORNING, BA, PhD
 - 1 Salient Features of Canadian History
 - 2 Canadian Literature
 - 3 The Everlasting Balkans
 - 4 Teuton and Slav an age-long problem
 - 5 The Vertical Problem of Europe 6 France and Germany 1100 years and the Rhine
 - 7 The Trend of History to the year 2000
 - 8 From Serfdom to Democracy
- C D Howe, MS, PhD
 - 1 The Making of a Tree (Illustrated)
 - 2 The Making of a Forest (Illustrated)
 - 3 Nature's Forest and Man's Forest ((Illustrated)
 - 4 Forest Conditions in Canada (Illustrated)
 - 5 The Work of the Various Forestry Organizations in the Dominion (Illustrated)
- G W HOWLAND, BA, MB, MRCP, London
 - 1 Human Conservatories The Study of Mental Development in our own Homes

- I G HUME, BA, AM, PhD
 - 1 Some Educational Problems in Ontario
 - (a) Problems of the Public Schools (Urban and Rural)
 (b) Problems of the High Schools and Technical Schools
 - (c) Problems of the University
 - 2 Problems of the Punil
 - (a) The Choice of a Life Work
 - (b) How to Think
 - (c) The Training of the Memory
 (d) The Training of the Imagination
 - (e) Life's Problems and Life's Ideals (Individual and Social)

MAURICE HUTTON, MA, LLD

- 1 The Roman, Greek, Englishman and Frenchman (2 lectures or 1)
- 2 The Mind of Herodotus (2 lectures or 1)
- 3 Greece in the Great War
- 4 Some Oxford Types
- 5 The Art of Lewis Carroll (the author of "Alice in Wonderland")
 - 6 The British and German Mind
 - 7 Gilbert and Sullivan's Operas
 - 8 Kipling (2 lectures or 1)
 - 9 A Traveller's Notes in Greece
- 10 In Paris
- 11 The Greek Point of View
- 13 Gladstone and Disraeli
- 14 The Conspiracies of Literature
- 15 The Fragments that Remain
- 16 By-Products of Democracy F C A JEANNERET, BA
 - 1 Brieux and the Modern French Drama
- G M Jones, BA
 - 1 The Imperial Conference
 - 2 The Growth of Democracy in Great Britain
 - 3 The Romance of Canadian History (Illustrated)
 4 Tennyson's "In Memoriam"
- D R KEYS, M A
 - 1 American Humour-Its Genesis and Exodus
 - 2 King Alfred the Great
 - 3 Chaucer and his Times (Illustrated)

- 4 The English Novel as a Guide to Conduct
- 5 Folk Lore
- 6 The Modern Novel
- 7 Toronto-Past, Present and Future
- 8 World Problems of Our Day

R S Knox, M A

- 1 Scottish Poetry
 - 2 The English Drama of To-day
 - 3 John Masefield
 - 4 The Plays of John Galsworthy
 - 5 Scottish Humour
 - 6 The Development of the English Theatre
 - 7 Shakespeare's England
 - 8 Some Poets of To-day

MISS A L LAIRD, M S

- 1 Malnutrition in Children (Illustrated)
- 2 Vitamins (Illustrated)
- 3 Vegetables and Figures—a Road to Health (Illustrated)
 4 The Dietrian in the Home (Illustrated)
- 5 Food—a Factor in National Development (Illustrated)
- A T LAING, BASc
 - 1 Roads, Ancient and Modern (Illustrated)
 - 2 Canadian Motor Trails (Illustrated)

W B LANE, MA, PhD

- 1 Pragmatism and Idealism (One lecture, or a series)
- 2 Ethical Features of the Modern Flux Philosophy (Bergson) (One lecture, or a series)
- 3 Ethics of Kant (or J S Mill or Green) (One lecture, or a series)
- 4 Nietzsche's Immoralism (One lecture)
- R M MacIver, BA, MA, DPhil
 - 1 Current Economic Questions

H S McKellar, BA

- 1 Dr Drummond, the Habitant Poet—a biographical sketch, his appreciation of the French-Canadian, with the reading of some of his best poems
- 2 A Glimpse of Paris—75 lantern slides, with a brief historical and literary background
- 3 Robert Burns
- 4 French Wit and Scotch Humour—A short study in national characteristics

I F McLAUGHLIN, BA, DD

120

- 1 History and Monuments of Ancient Egypt (Illustrated)
- 2 Flistory and Monuments of Ancient Mesopotamia (Illus-
- 3 Mohammed and his Koran
- 4 Poetry and Religion of the Arabs
- 5 The Hebrew Prophets
- 6 The Hebrew Poets
- 7 Modern Movements and Changes in Palestine (Illustrated)
 (Nos. 5 and 6 can be given in short courses of five or six

(Nos 5 and 6 can be given in short courses of five or si lectures)

H McT (GGART, MA

- 1 The Study of Crystal Structures by means of X-rays
- 2 Colour Photography (Illustrated)

E S Moore, MA, PhD

- 1 Coal-Its Nature, Origin and Utilization (Illustrated)
 - 2 Petroleum and Natural Gas (Illustrated)
- 3 Canada's Mineral Wealth-Past, Present and Future 4 Expedition to Hudson Bay, the Home of the Eskimo
- (Illustrated)
- 5 India (Illustrated)
- 6 Volcanoes, and their Geographical Importance (Illustrated)

M Moraud, L es L, Paris, Agrégé de L'Universite

- 1 Some Aspects of Parisian Life 2 School Life in France
- 2 School Lite in France 3 University Life in France
- 4 The French Press
- 5 The Political Parties in France
- 6 The French Foreign Policy

G H NEEDLER BA. Ph D

- 1 The German University
 - 2 Shakespeare in Germany
 - 3 Heinrich Heine
 - 4 Richard Wagner from the Literary Side
 - 5 Germany before the Great War
 - 6 What has happened to Germany
 - 7 Series of Lectures on Periods or Authors in German Liter-
 - 8 Goethe's Relations to Scott, Byron, Carlyle and other English Writers

Appendix 121

- J H PARKIN, BASc, ME
 - 1 Aviation in Canada
- W A PARKS, Ph D
 - 1 The Great Fossil Reptiles of Alberta (Illustrated)
 - 2 The Origin and Development of the Mammalia (Illustrated)
 - 3 Northern Ontaiio, Geological Geography (Illustrated)
 - 4 The Development of the Science of Geology 5 The Surficial Geology of Ontario (Illustrated)
- G D PORTER, M B
 - 1 Health Promotion
 - 2 Tuberculosis and Public Health
- J C ROBERTSON, M A
 - 1 A Visit to Greece (Chiefly Athens, Mycenae, Delphi and Olympia) (One to four lectures, illustrated)
 - 2 The Legacy of Greece (One lecture or a course of three lectures)
 - T R ROBINSON, Ph D
 - 1 Thought and Life The nature and scope of Philosophy, its relation to religion, science, literature and daily life
 - 2 Philosophics of Life Views of the nature of the universe and man, in their relation to the problems of life and conduct, illustrated by ancient and modern examples
 - 3 Present-Day Problems in Social Ethics Modern economic, political and social conditions in their ethical aspects
 - 4 The Function of the State in Regard to Morality What government has to do with making people good
 - 5 Charles Dickens and his Social Philosophy
 - 6 The Philosophy of Emerson
 - 7 Tennyson's Doctrine of Immorality in "In Memoriam"
- (Short Courses may be given on the subjects of (1) to (4))
 P Sandiford, M Sc. Ph D
 - 1 The Measurement of Intelligence (1 to 6 lectures with demonstrations)
 - 2 The Psychology of Childhood (1 to 6 lectures)
 - 3 The Original Nature of Man (I to 6 lectures)
 - 4 The Psychology of School Subjects (1 to 6 lectures)
 - C B Sissons, BA
 - 1 Co-operation in Theory and Practice
 - 2 Peculiar Peoples in the Canadian West 3 The Empire in Ancient and Modern Times
 - 4 Socrates, Teacher and Citizen

H B STETON M A

- 1 Poisonous Plants (Illustrated-one or a series of lectures)
- 2 Poisonous Seeds in Feeds (Illustrated-one lecture)
- 3 Weeds (Coloured illustrations-one lecture)

G O SMITH M A

- 1 The Roman Occupation of Britain (One lecture-illustrated)
 - 2 The Roman Occupation of Britain (A Course of three
 - lectures, two of them illustrated)
 - 3 Memoirs and Letters of an English Family in the 17th Century

R. B THOMSON, BA

- 1 Rambles among Canadian Wild Flowers (Coloured lantern slides)
 - 2 Medical Folk-lore of Plants (Illustrated)
- 3 The Royal Botanic Gardens-Kew (Illustrated)
- 4 A Trip to the Rockies and Some Plants by the Way (Illustrated)

W S WALLACE, BA, MA

- 1 The Growth of Canadian National Feeling (One lecture or a course of lectures)
- 2 The First White Men in America (One lecture)

J S WILL, BA. Ph D

- 1 Mediaeval Saints and Modern Sinners (A lecture on religion in France)
 - 2 France of To-day and Yesterday
- 3 Renaissance and Reform (One or more lectures)
- 4 French Painters (Illustrated)
- 5 Illustrious French Women (One or more lectures)
- 6 Intellectual Liberty
- 7 French Thought in the Nineteenth Century
- 8 Canada's Debt to France

C R Young, B A Sc. CE

- 1 Achievements of Engineering (Illustrated)
- 2 Early Engineers and Their Work (Illustrated) 3 Contributions of the Engineer to Civilization
- 4 Evolution of Transportation (Illustrated)
- 5 Triumphs of Bridge Building (Illustrated)
- 6 Brindley and Smeaton (Illustrated)
- 7 Sir John Fowler and Sir Benjamin Baker (Illustrated)
- 8 The Aesthetics of Bridges (Illustrated)
- 9 Getting Things Done (A discussion of the fundamental principles of management)

Dept of Architecture —Lecturers Professors C H C Wright, C W lefferys. A W McConnell, H H Madull

- 1 An Outline of the History of Architecture
 - 2 The University Buildings
 - 3 Modern Architecture
 - 4 Modern Domestic Architecture
 - 5 The Cathedrals of England and France
 - 6 The Architecture of the French Renaissance
 - 7 The Architecture of the Renaissance
 - 8 The Decoration of Public Buildings
 - 9 The Mural Painters
 - 10 The Human Element in Pictures
 - 11 The Making of a Picture
 - 12 Portrait Painters of Yesterday and To-day

(All illustrated)

In co-operation with the Social Hygiene Council lectures on various aspects of social hygiene will be arranged when requested Dr Gordon Bates and other members of the Council will be available as lecturers

A few sets of lantern slides illustrative of stars, planets, constellations, etc, are available for loan to responsible organizations. An explanatory bulletin accompanies these so that anyone with a fair knowledge of astronomy can give, with the aid of the slides, an interesting fecture on the subject. The organization borrowing these slides pays express charges both ways and is responsible for breakages, there is no other cost. Star maps are sold at one cent each.

CATALOGUE OF SPECIAL EVENTS, 1923-1924

1923

- Oct 3-Address by Lord Birkenhead in Massey Hall under the auspices of the Students' Administrative Council
- Oct 7-University Sermon by Principal W B Selbie, Mansfield College, Oxford
- Oct 14-University Sermon by Sir Robert Falconer
- Oct 15—University of Oxford Debating Team vs University of Toronto
- Oct 21-University Sermon by Canon F G Scott, Quebec
- Oct 22-27—"The Man from Blankleys," by F Anstey, at Hart House Theatre
 - Oct 28-University Sermon by Dr Sherwood Eddy, New York
 - Nov 4-University Sermon by Dr Charles E Jefferson, New York Nov 18-University Sermon by Prof Hugh Black, D.D., Union
 - Theological Seminary, New York

 Nov 19-24—"The Toils of Yoshitomo," by Torahiko Kori, at Hart

 House Theatre
 - House Theatre
 Nov 25—University Sermon by Dr W T Grenfell, Labrador
- Nov 26—Special Convocation for the purpose of conferring the honorary degree of Doctor of Science upon Professor F G Banting. M C. M D. LL D. and Professor I I R Macleod.
 - MB, ChB, DPH, FRS

 Nov 26—Banquet arranged by the Governors of the University in
 honour of Professor F G Banting, MC, MD, LLD, and
- Professor J J R Macleod, MD, DPH, FRS, in recognition of the award to them of the Nobel Prize
 Dec 2—University Sermon by Dr Paul Harrison, Arabia
- Dec 5-Evening by Miss Ruth Draper arranged by the Syndics of Hart House Theatre
- Dec 6-Address by Professor J E K Aggrey on "The Challenge of Africa"
- Dec 9-University Sermon by Rev C W Gilkey, Chicago
- Dec 16-University Sermon by Professor Theodore Soares, Chicago Dec 17-22-"Castles in the Air," by Bertram Forsyth, at Hart House
 - Dec 17-22—"Castles in the Air," by Bertram Forsyth, at Hart House Theatre

1924

- Jan 6-University Sermon by Canon E S Woods, MA, Cambridge,
 England
- Jan 13-University Sermon by Canon A P Shatford, Montreal

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- Jan 20—University Sermon by Professor Rufus M Jones, Haverford College
- Jan 21-26--"L'Enfant Prodigue," by Andre Wornser, at Hart House Theatre
- Jan 27-University Sermon by Rev John MacNeill, Toronto
- Feb 3—University Sermon by Dean W L Sperry, Harvard University
- Feb 4-8—Series of Lectures in English by Professor Albert Femilierat,
 University of Rennes, France, exchange Professor at Harvard University
- Feb 5-Address by Mr Edward T Devine, arranged by the Department of Social Service
- Feb 8-Official Opening of the new Aerodynamics Laboratory
- Feb 10-University Sermon by Dr Shailer Matthews, University of Chicago
- Feb 11-15-Series of Lectures in French by Professor Albert Feuillerat
- Feb 12-Course of Lectures by Henry Norris Russell, PhD, Professor of Astronomy in Princeton University
- Feb 17-University Sermon by G A Studdert Kennedy, M.C., Rector of St Edmunds, London, England
- Feb 18-Address by G A Studdert Kennedy, M C
- Feb 21-Lecture by Dr Ludwig Silberstein, Rochester, NY, airanged by the Department of Physics
- Feb 22-Lecture by Dr Ludwig Silberstein
- Feb 24-University Sermon by Rev J R P Sclater, Toronto
- Feb 25-Mar 1-"The Hostage," by Paul Claudel (translated, Pierre Chavannes), at Hart House Theatre
- Mar 2-University Sermon by Rt Rev Bishop C H Brent, Buffalo, NY
- Mar. 4-Bates College Debating Team vs University of Toronto
- Mar 9-University Sermon by Chancellor H P Whidden, McMaster University, Toronto
- Mar 16—University Sermon by Professor E I Bosworth, Oberlin
 College, Ohio
- Mar 23—University Sermon by Bishop F J McConnell, Pittsburgh,
- Mar 24-29—"The Marriage of Figaro," by Mozart, at Hart House Theatre
- Mar 30-University Sermon by Rev J T Wardle Stafford, Toronto Apr 6-University Sermon by Rev S A B Mercer, Trinity College,
 - Toronto

Apr 21-26-"The Weddings of a Hunchback," by H Borsook, and "The Weather-Breeder," by Merrill Denison, at Hart House

Theatre

Apr 26-Complimentary Dinner to the President, Sir Robert Falconer, by members of the Staff of the University

May 19-24-"The Monkey's Paw," by W W Jacobs and "Great Catherine," by Bernard Shaw, at Hart House Theatre

June 5-Dedication Ceremony of the Soldiers' Tower, the War Memorial of the University

June 6-Convocation at which honorary degrees were conferred as follows -

Doctor of Laws (Honoris Causa)

Sir James Albert Manning Aikins, M.A., LLD

Rt Rev Charles Henry Brent, M.A., D.D., S.T.D., LL.D. Albert Edward Gooderham, Esq. William Tytler, Esq. BA

Doctor of Science (Honoris Causa) Henry Girdlestone Acres, Esq. M E Frederick Arthur Gaby, Esq., B A Sc

Doctor of Medicine (Honoris Causa) Oliver R Avison, Esq. MD

UNIVERSITY OF TORONTO ASSOCIATIONS AND SOCIETIES

1923-1924

THE ALUMNI FEDERATION OF THE UNIVERSITY OF

In the majority of the Facultes and Colleges of the University there are associations of alimin These are untied in the Alumin Federation of the University of Toronto The Federation has numerous branches throughout Canada and the United States, and publishes a monthly periodical known as The University of Toronto Monthly.

A Bureau of Appointments is conducted for the purpose of assisting graduates and undergraduates in securing employment during the term, for the summer, and permanently

More than \$164,000 00 has been loaned to 540 returned soldier students towards their University expenses from the War Memorial Fund, which was largely subscribed by graduates

In co-operation with the Board of Governors the Alumni Federation has set up the Banting Research Foundation, which aims to make adequate funds available for the assistance of medical research at the University and elsewhere

For three years a series of popular lectures by members of the Staff has been arranged, in the interests of University publicity

President-Angus MacMurchy

Vice-President-H. D Scully

Board of Director—Six Robert Fakoner, Angus MacMurchy, H B Anderson, E P Brown, W A Buske, I H Cameron, John J Gibson, Thos Gibson, C E Locke, J V McKenze, F P Megan, H D Scully, Dr W E Gallie, R J Marshall, G F McFarland, Mass Katherine Begg, Miss Lexa Denne, Dr Minerva Reid, R N Burns

HART HOUSE

Warden-J B Bickersteth

Comptroller-J R Gilley

Director of Theatre-Bertram Forsyth

Finance Committee-J B Bickersteth, M A Mackenzie, Vincent Massey, V E Henderson, C R Young, G A Cornish, J R Gilley

Board of Stewards—Sir Robert Falconer, J B Bickersteth (Chairman, ex-oficio), T A Reed, Vincent Massey, Dr V E Henderson, C N Cochrane, P W Beatty, R B Ferns, D M Meckson, J McCulley, G A Cornish, D L MacLean, C S Sneyd, H R McAlister, H L Martin, W T A Bell

House Committee—J B Bickersteth (chairman, ex-officio), Dr D E Robertson, Dr A D A Mason, R B Ferris, D M Meckison, G N Kennedy, D L MacLean, J L Dill, J M Dymond, J Hornal, E T Guest, F W Beare, W A Osbourne, F 1 Wallis, M M Kelso.

R C Riley

Hall Committee—J B Bickersteth (chairman, ex-officio), C R Young, H A Tuttle, G A Cline, H J C Ireton, C S Sneyd, W H McLean, M G de Souza, K S Waldron, R T Black, C R Davis, E R Westman, H S Clark, C A G Law, C R Ferguson

FACULTY UNION

Organized 1901

OFFICERS

President-Sir Robert Falconer, K C M G

House Committee—V W Bladen, G A Cline, C B Sissons, Leo Smith, R B Thomson, H A Tuttle

STUDENTS ADMINISTRATIVE COUNCIL

The Students Administrative Council has developed from the Parliament of Undergraduates which was organized in 1905 with a large membership to afford students of all the Colleges and Faculties the privilege of discussing in open debate questions of interest to them. During the last few years the membership of the Parliament has been reduced as the work became more executive. The Council, as now recognized by the University authorities, has the following duties —

To represent the students on all public occasions and in all matters

pertaining to their interests

To afford a recognized means of communication between the students and the University or Civic authorities

To promote inter-university relationships and to cultivate a University "esprit de corps" among the students of all Colleges and Faculties

An important step in the growing power of the Council was accomplished during the Session 1914-15, when the Caput of the University delegated to the Council full authority to deal with all matters concerning student discipline within the University Another innovation is the Students' Council fee, collected by the Bursar, for the use of the Council This makes possible the employment of a salarized permanent secretary and provides a working capital by means of which a greater efficiency in the management of the various organizations can be attained.

The Council is responsible for Theatre Night, the Glee Club, the University Musical Society, and Inter-University Debating, and jointly responsible with the Women Students Administrative Council for the publication of The Varsity, Torontonensis, and the Students' Directory

Executive

President, James Endicott, BA Vice-President, W A Osbourne

General Secretary-Treasurer, F C Hastings, B A

Convenor, Students' Court, B I Johnstone

Convenor, Literary Organizations Committee, N. J. Endicott Convenor, Musical Organizations Committee, W A Haughton

Representative to Torontonensis Board, A Gillies Representative to Board of Hart

House Stewards, J McCulley Representative to Athletic Association, R S S Chaffe

Coan al

Medicine, G N Black, D L Mc-Lean, L H A R Huggard, E N Wright, A E Young, J H Ross

University College, A M Laid, W W Goforth, I E Francis, W B Crow

Royal College of Dental Surgeons, F C Simms, A J Barkley, W G Thomas, R G Hemmerick, H P Bishop

School of Applied Science, W J W Reid, H C Smith, T B Smith

Victoria College, A W Scott, T

St Michael's College, J E Me-Gahey

Wychiffe College, R H Perry Forestry, W B Greenwood

Ontario College of Education, C C. Asheroft

Pharmacy, B O McLeod

Students' Christian Association Representative, W S MacKay Athletic Association Representa-

tive, R H Ferguson

Varsity Representative, A K. Kembar

WOMEN STUDENTS' ADMINISTRATIVE COUNCIL

President, Miss E Grout, St Varsity Representative, Miss Hilda's College F Smith, Medicine

Torontonensis Representative,

Vice-President, Miss E Burke, Torontonensis Representative,
Miss M Thomas, University
College

General Secretary-Treasurer, Miss Victoria Representative, Miss A E Marie Parkes, BA M Moody, Victoria College

WOMEN'S ATHLETIC ASSOCIATION

President, Dr C C Benson

Directorate Members, Mrs W A
Kirkwood, Dr Edith Gordon,

Wice-President, Miss Adelaide H

G Macdonald

Burwash, Miss M L Asman.

Financial Secretary, Miss A E Hraser, Miss A M S Ramshottom

Miss M S Ramsbottom

Miss M S Ramsbottom

THE VARSITY

Editor-in-Chief, A K Kembar Assistant, D M Halliday

Women's Editor, Miss D Matthew Sporting Editors, T J Wheeler, Miss F Evans

Managing Editors, I L Kenen, Exchange Editor, E R Angus
Miss J Kniveton Music Editor, N P H Brown

Music Editor, N P H Brown

Assistant, G Maybee

Dramatic Editor, W S Milne

Librarian, E W Rush

News Editors, B J O'Royle.

Business Manager. F C Hastings.

Miss M McGeachey B A

WOMEN'S PRESS ASSOCIATION

President, Miss J L Gogo Alumnae Councillor, Miss M Vice-President, Miss D Matthew Mallon

Secietary-Treasurer, Miss M Active Councillor, Miss E Mus-

Smith tard

TORONTONENSIS BOARD

Editor-in-Chief, R B Cowan
Business Manager, F C Hastings, BA
Miller

Reddeine Sanford English Stape

Ings, BA

Miller

Medicine, Sanford English, Stanley Campbell, Miss L A DalForestry, Nigel M Kensit

rymple
Victoria College, D B McColl,

st Michael's College, L F Barnett Miss McCompack

Miss G H McKay nett, Miss McCormack
University College, G Mallon. Loretto College, Miss E Irvine

Miss Worthington Trimty College, H Beaumont
School of Applied Science, W R St Hilda's, Miss Hazelwood
Cown

STUDENT CHRISTIAN ASSOCIATION

The object of the Association is to lead the men in the University of Toronito to acknowledge Jenus Christ as Lord and Master, and to have them decide on a life's work in His name, to promote Christian character, to develop and train men for aggressive Christian work and service, and generally to promote the physical, mental and spiritual welfare of the student body

Advisory Committee

Hon Chairman, Sir Robert Falconer, LLD, D Lutt C P Milne, Esq
Chairman, F Tracy, Ph D W M Graham

Treasurer, C L Burton, Esq Secretary, R B Ferris, B A

Executive of Federal Cabinet

President, W S McKay, UC

Assistant Treasurer, W M Graham, Vic.

President, H S Clark.

SPS Work and Social Service,
W S Stabury, UC

Recording Secretory I. I. Little Graved Screen R. R. Ferris.

Recording Secretory, J L Little, General Secretary, R B Ferris, Med BA

Rebresentatives of Local Units

University College, J E Pritchard
Medical College, T W A Gray
Mephied Science, J Beatte
Mychife College, C W Krug, BA

Dental College, Geo F Edwards Missionary, I McEown, B A

WOMEN'S COUNCIL OF THE STUDENT CHRISTIAN ASSOCIATION

Secretary, Miss M C W Buffam, President, Miss A. N. Wilson, St. University College Hilda's College

Treasurer, Miss M A Nicholson Vice-President, Miss A M Hilhard. Victoria College Medicine

CANADIAN OFFICERS' TRAINING CORPS UNIVERSITY OF TORONTO

Lt M R Blackburn (Elgin Officer Commanding, Colonel W Rgt) R Lang, late General Staff,

CEF "B" Co (Medicine), Major W G Cosbie, MC, (CAMC), Second in Command, Major T

Capt J A Linton, MC (CA R Loudon, late Can Eng. MC). Lieut H D Delamere, CEF

Lieut H B Lang, M C Admitant, Major H H Madill. late Inst. Cadre. CEF "C" Co (App Sc), Major J R Cockburn, M.C., Capt W. J. T.

Medical Officer, Major J W Bar-Wright, MBE, Lieuts, J D ton, MD, R of O, CE Walks, H W McManus, F J Paymaster, Capt T A Reed

Contingent Sergeant-Major, S-M Malue Attached from Can Asr Force, W Hunt, late Royal Welch Lieut H T Balmer Fusihers

Company Officers, "A" Co (Arts). Attached for Instruction, Lieuts Lieuts K B Conn. DFC G A Murray (Res of O), C F (Comdg), A Holmes, R B Haultain (Durham Regt), Prov Messervey, N W Taylor, I Lieut F E Nevlan (Simcoe Thomson (Bruce Regt), Prov-Foresters)

THE UNIVERSITY OF TORONTO ATHLETIC ASSOCIATION

The Athletic Association is now the paramount body in University athletics, and has entire jurisdiction over the athletic clubs using the University name, and over their finances, members and policy, subject to the University authorities Henceforth no financial agreement can be entered into by any such club without the sanction of the Directorate No expenditure of any kind in connection with any such club can be made without the written order of the Secretary-Treasurer of the Directorate

The offices of the Association are in Hart House where all information can be obtained regarding the various branches of sport A student who wishes to participate in any line of athletics must register at the office of the Secretary before playing with any club. and undergo a medical examination

ATHLETIC DIRECTORATE

Honorary President, Sir R A FALCONEP, DLITT, LLD, CMG

Faculty Members Appointed by the President

PROFESSOR M A MACKENZIE, M A, President

PROFESSOR C H C WRIGHT, BASe

Representative of the Advisory Board

DR W A DAFOE

Student Members elected by the Undergraduates

R H FFRGUSON

J HYDE

R H KEEFLER R T WEAVER

D M MEEKISON

Representative of Students' Administrative Council

R S S CHAFT

President

Medical Director DR G D PORTER
Secretary-Treasurer T A REED

Gymnasium Director D M BARTON

Hart House Steward appointed by the Athletic Directorate
D M Merkison

Representatives on the Rules Committee of the Intercollegiate Regby

Union
Hugh Gail W C Foulds

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 Captain
 G E WESTMAN (Dent V)

Manager H Zimmerman (Ap Sc III)

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Manajer J R Neilson (Med V)
Capian L G C p'Easum (Med V)

L G C BEASUM (Med V

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|--------------------|---------------------------|
| Hon Vice-President | DR V E HENDERSON |
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| IR.ICK CLU. | D EAECUTIVE |
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|------|---|-----|----------|--|---|------------|----|
| | | | | | | | |

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|---------------------|------------------------|-----|
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| 1st 1 ice-President | R R Sirrs, (Ap Sc I | V) |
| 2nd Vice-President | J F MILLICAN (Ap Sc II | II) |
| Secretary | COLIN TAIT (Med I | II) |

Committee

W Armstrong (Dent IV)
D M Streeg (Med V)
W H D Clark (Ap Sc IV)

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|----------------------|------------------------|
| Vice-President | P E WILLIAMS (Vic III) |
| Secretary | J A Haines (UC IV) |
| Captain (Swimming) | J L UREN (Med III) |
| Captain (Water Polo) | To be elected |

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|--------------------|------------------------|
| Hon Vice-President | Dr J D Graham |
| President | A C TAYLOR (Med V) |
| Vice-President | J A M BELL (Trin IV) |
| Sec -Treasurer | J S McIntosh (Med V) |
| Captain I Team | D J McLean (Ap Sc III) |

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|--------------------|------------------------|
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| President | D M MEEKISON (Med V) |
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| Secretary | R H FERGUSON (Dent V |

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|--------------------|-------------------------|
| Hon Vice-President | G R. WORKMAN |
| President | A R CHADWICK (Ap Sc IV) |
| Secretary | E CHOROLSKY (Ap Sc II) |
| Manager | I W Mrx (Vic IV) |
| Captain | M Wolsey (Ap Sc IV) |

BOXING, WRESTLING AND FENCING CLUB EXECUTIVE

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|-------------------|-----------------------------|
| Hon Vue-President | F S SEABORNE, B A Sc |
| President | L W BLACK (Med IV |
| Vice-President | F B Cooper (Dent IV |
| Sect etat y | J A MAHON (St Michael's III |
| Managan | C D Gossics (Med V |

Boxing Representative
Wrestling Representative E SHUTE (Med IV) F FARNSWORTH (Med IV) E G F BARR, (Ap Sc III)

Fencing Representative

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CURLING CLUB EXECUTIVE

| Hon President | PROF W M TREADGOLD |
|-----------------|------------------------|
| President | A H MacKay (Med V) |
| Vice-President | L G MACDONALD (UC III) |
| Sec-Treasurer | T M STELLE (Med V) |
| Publicity Agent | W J HASTIE (UC IV) |

INDOOR BASEBALL CLUB EXECUTIVE

| President | R | :R | SIRRS (Ap Sc | IV) |
|---------------------|-----|----|---------------|------|
| Vice-President | F | F | BAKER (Dent | IV) |
| Secretary | F F | H | UTCHISON (U C | III) |
| Assistant Secretary | O I | S | impson (Ap Sc | IV) |

LACROSSE CLUB EXECUTIVE

| Hon President | Jonn L Wilson |
|--------------------|--------------------------|
| Hon Vice-President | L G C D'EASUM |
| P1 esident | Geo S Williamson (Med V) |
| Vice-President | H M Ross (Med IV) |
| Secretary | J S McIntosh (Med IV) |
| Manager | A R McGss (Med IV) |

GLUNASTA

The Physical Department has now five gymnasia The main floor, so Uox 50 feet, is fitted up with the latest apparatus for all round cass and individual work. The upper gymnasium, 80 x 40 feet, is known as the Games Rooms, where the interfactily conners in backethali, indoor baseball and wolley ball are played. The teams of the various faculties and colleges have practice hours alloided to them on this floor. There are also the three small gymnasia, each 50 x 30 feet, for boxing, wrestling and feening, respectively. These three rooms also fitted up with baskethall goals and afford extra practice floors in an emergency.

All the male students of the University are examined by the Medical Director and placed in categories according to their physical framing is compulsory for every student of the first and second years. Students in Category A², that is physically fit, can elect the form of exercise in which they wish to engage Students in Category A³, (hardly up to A³ standard physically), can elect in the same manner, but are limited to certain forms of exercise

as recommended by the Physical Director Students in Category B1
must take the form of exercise recommended by the Physical Director

Two gymnasium instructors are in attendance from 9 am to 6 pm Classes are held at various hours throughout the day The Swimming Instructor is in attendance at the pool from 9 am to 6 pm Swimmers may use the pool at any time Non-awimmers must attend at the hours set for them Students may consult the Medical Director on all matters pertaining to their health

The Gymnasium Fee is now merged in the Hart House Fee, payable to the Bursar, and compulsory for all male students

HART HOUSE THEATRE

Technical Staff

Business Manager, R S Burns
Slage Manager, Alan Coventry
ster
Assistant Stage Manager, Colin
Tatt
Master of Properties (McConkey

Syndies

Vincent Massey (Chairman) Donald D McKay
J B Bickerstein
Alan Coventry Leslie Red (Hon Secretary)
George H Locke
G F McFarland (Hon Treasurer)
Colin Tait

Officers

Director Bertram Forsyth
Secretary E O Mitchell

MATHEMATICAL AND PHYSICAL SOCIETY

Honorary President, H A Mc-Taggart, MA, PhD Treatures, H G I Watson President, S J Metzler Corresponding Secretary, Miss B Vice-President, R G Stagg M Rend

Representatives

Graduate, Miss F M Quinlan, Third Year, A E Archibald
MA Second Year, W M Anderson
Fourth Year, Miss K Baird First Year, J A Varty

CHESS CLUB

Hon President, R D Rudolf, Sec-Treas, W H Coulter MD.CM

Team Captain, C H Meader

President, I D Burbank

COMMERCE CLUB

Honorary President, Professor G E Jackson President, Professor R M Mac-

Iver 1st Vice-President, J H Luxton

2nd Vice-President, J F Clark Secretary, F J Servais

Treasurer, L A Richardson Athletic Director, R T Black, Third Year Councillor, A K Booth

Second Year Councillors, G. H. Rawson, V X McEnanev First Year Councillor, T H Gibson

MENORAH SOCIETY

Hon President, W A Irwin. MA.DB Hon Advisor, A B Bennett, M A

President, E E Gelber 1st Vice-President, Miss B Stern

2nd Vice-President, L. Borsook Treasurer, S Freedhoff General Secretary, Miss L. Sher

Recording Secretary, D Garfunkel

Arts Rebres . (Women), Miss S Kaplan

Arts Repres. (Men), H Minden

Medical Repres, (Sensor), Sockin

Medical Repres, (Junior), Moscoe. Science Repres. N Samuels

Dentistry Repres, (Semor), W Breslin

Dentistry Repres, (Junior), S Leshe Osgoode Hall Repres. M. Doctor

Pharmacy Repres, W Isaacson President, ev-officio, J M Stuchen. BA

WOMEN REPRESENTATIVES TO THE DEBATING UNION

St Michael's College, Miss A Kavanagh, Miss C Gates

St Hilda's College, Miss E Gregorv. Miss A. Gillard

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The Society is divided into six Clubs for the purpose of affording a medium of study of matters relating in particular to different branches of Engineering Each of the Clubs holds its meetings at regular intervals. Papers are read and discussions held on engineering subjects

The Society publishes an annual, called "Transactions," which contains the addresses given at the meetings and an account of the year's activities

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